SANYO C21EF13EX50

MODEL

SERVICE MANUAL

MAIN PCB ASSY E6BJP UE2798A

IC710 BAND SWITCH

-0.002	1
11.7V	2
3.3V	3
0V	4
-0.001	5
12.2V	6
0.1V	7
-0.004	8
11.8V	9

Q101

	VOLT.
B	1.2V
C	0.4V
E	6.2V

Q512

	VOLT.	WAVEFORM
B	– 0.1V	4.2Vp-p
C	– 0.1V	4.4Vp-p
E	0V	-----

Q513

	VOLT.	WAVEFORM
B	– 0.8V	5.0Vp-p
C	315V	600Vp-p
E	0V	-----

Q553

	VOLT.
B	6.7V
C	35.5V
E	6.2 V

Q203

	VOLT.
B	0.02V
C	1.6V
E	0.01V

Q202

	VOLT.
B	0.6V
C	0.07V
E	– V

Q153

	VOLT.
B	0.02 V
C	5.3 V
E	0.004V

Q154

	VOLT.
B	4.7V
C	7.8V
E	4.0V

Q156

	VOLT.
B	4.7V
C	7.8V
E	4.1V

THE SERVICE PRECAUTION:
The area enclosed by this line(▲▲▲) is directly connected with AC mains voltage. When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

PRODUCT SAFETY NOTICE:
Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a mark ⚠ in this circuit diagram show components whose values have special significance to product safety. It is particularly recommended that only parts specified on the part service manual be used for components replacement pointed out by the mark.

SANYO

COLOUR TELEVISION

A7-A CHASSIS SERIES

SERVICE REF. NO. C21EF16EE-50 C21EF13EX-50

Part No. 1AA6P2P0153- - E6BJP

CIRCUIT DIAGRAM NOTICE:

1. All resistance value are in ohms, K=1,000, M=1,000,000.
2. All resistance rated wattages are 1/6W unless otherwise noted.
3. Excepting electrolytic capacitors, all capacitance values of less than 1 are expressed in μ F and more than 1 are pF.
4. All capacitance rated voltages are 50V unless otherwise noted.
5. All inductance values are in μ H.
6. Voltage readings taken with taken with a "VTVM" are from point indicated chassis ground. Voltage readings taken by using a colour bar signal are with all controls at normal position. Some voltages may vary with signal strength.
7. Waveforms were taken with colour bar and controls adjusted for normal picture. Waveforms were taken by using a wide band oscilloscope and a low capacity probe.
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.
9. Expression of capacitance and resistance in circuit diagram.

Capacitance(Example)
1000 C M 2000 D
- Characteristic
- Capacitance value(2200pF)
- Allowable error (± 20%)
- Kind (Ceramic)
- Rated voltage (1000V)

J= ± 5%
K= ± 10%
M= ± 20%
T,A,U,D: Electrolytic
C,K,B,Ceramic
F,Mylar film
M,N-Polypropylene
Z:Metalized paper
C:Carbon
N:Metaliz carbon
S:Oxide metalized
W:Wire wounding
C:Solid

Resistance(Example)
1/2 N J 1.2
- Resistance value(1.2 Ω)
- Allowable error(± 5%)
- Kind(M.carbon)
- Rated wattage(1/2W)

Q621		
	VOLT.	WAVEFORM
B	2.0V	3.0Vp-p(HORIZ.)
C	128V	94Vp-p(HORIZ.)
E	2.5V	— — —

Q432		
	Volt.	Waveform
B	2.5V	12Vp-p HORIZ.
C	116V	820Vp-p HORIZ.
E	2.5V	— — —

Q431		
	Volt.	Waveform
B	0.3V	0.8Vp-p HORIZ.
C	13.9V	45Vp-p HORIZ.
E	0 V	— — —

Q122	
	VOLT.
B	3.1V
C	33.1V
E	2.4V

Q124	
	VOLT.
B	2.3V
C	0.007V
E	3.0V

Q113	
	VOLT.
B	4.6V
C	7.8V
E	3.3V

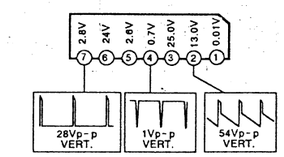
Q111	
	VOLT.
B	3.1V
C	7.8V
E	2.4V

Q172	
	VOLT.
B	0.6V
C	0.01V
E	-0.001V

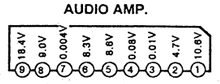
Q171	
	VOLT.
B	11.3V
C	11.8V
E	10.6 V

Q156	
	VOLT.
B	4.7V
C	7.8V
E	4.1V

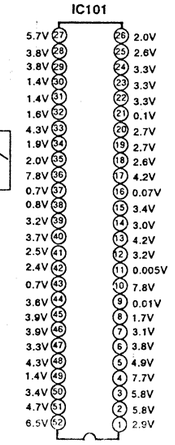
IC451
VRT. DEF.



IC171
AUDIO AMP.



IC101



CIRCUIT DIAGRAM NOTICE:

1. All resistance value are in ohms, K=1,000, M=1,000,000.
2. All resistance rated wattages are 1/6W unless otherwise noted.
3. Excepting electrolytic capacitors, all capacitance values of less than 1 are expressed in μ F and more than 1 are pF.
4. All capacitance rated voltages are 50V unless otherwise noted.
5. All inductance values are in μ H.
6. Voltage readings taken with taken with a "VTVM" are from point indicated chassis ground. Voltage readings taken by using a colour bar signal are with all controls at normal position. Some voltages may vary with signal strength.
7. Waveforms were taken with colour bar and controls adjusted for normal picture. Waveforms were taken by using a wide band oscilloscope and a low capacity probe.
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.
9. Expression of capacitance and resistance in circuit diagram.

Capacitance(Example)

1000 C M 2000 D

- Characteristic
- Capacitance value(220pF)
- Allowable error (± 20%)
- Kind (Ceramic)
- Rated voltage (1.000V)

Characteristic: J= ± 5%, K= ± 10%, M= ± 20%

Kind: T,A,U,D: Electrolytic; C,K,B,Ceramic; F:Mylar film; M,N:Polypropylene; Z:Metalized paper

Resistance(Example)

1/2 N J 1.2

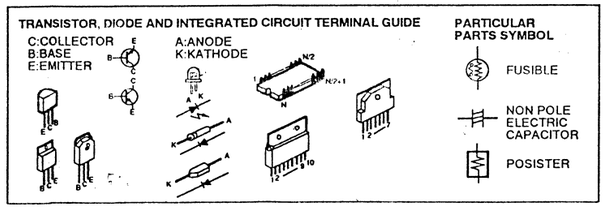
- Resistance value(1.2 Ω)
- Allowable error(± 5%)
- Kind(M.carbon)
- Rated wattage(1/2W)

Kind: D:Carbon; N:Metaliz carbon; S:Oxide metalized; W:Wire wounding; C:Solid

TRANSISTOR, DIODE AND INTEGRATED CIRCUIT TERMINAL GUIDE

C:COLLECTOR
B:BASE
E:EMITTER

A:ANODE
K:KATHODE



PARTICULAR PARTS SYMBOL

10. Parts specified with " X " are not installed in this model.
11. Parts specified with "J " are just jumper wires.

Q701	VOLT.
B	– 0.1 V
C	3.9 V
E	0.01V

Q702	VOLT.
B	0.01 V
C	5.8 V
E	-0.06V

Q721	VOLT.
B	0.002V
C	5.0 V
E	0.002V

Q722	VOLT.
B	0.01 V
C	5.0V
E	0.01V

Q723	VOLT.
B	0.01V
C	5.0V
E	0.01V

Q714	VOLT.
B	0.01V
C	5.0V
E	0.1V

Q891	VOLT.
B	2.1V
C	– 7.8V
E	1.4V

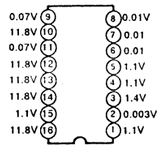
Q855	VOLT.
B	0.008V
C	5.1 V
E	0.004V

Q292	VOLT.
B	0.02V
C	11.8V
E	0.005V

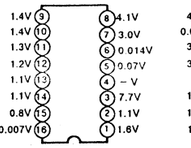
Q291	VOLT.
B	3.0V
C	7.8V
E	2.3V

Q856	VOLT.
B	3.0 V
C	7.8V
E	2.4V

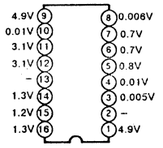
IC290 TV/AV SWITCH



IC280 SECAM

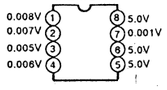


IC270 1H DELAY



Q703	VOLT.
B	0.35 V
C	11.8 V
E	0.04V

IC790 MEMORY



Q713	VOLT.
B	5.0V
C	0.01V
E	5.0V

Q715	VOLT.
B	-0.05V
C	35 V
E	0.007V

Q781	VOLT.
B	3.8V
C	7.8V
E	3.2V

Q716	VOLT.
B	0.6V
C	0.07V
E	0.007V

Q718	VOLT.
B	5.0V
C	0.01V
E	5.0V

Q857	VOLT.
B	2.9V
C	4.4V
E	2.2V

Q858	VOLT.
B	4.5V
C	0.002V
E	5.1V

Q706	VOLT.
B	3.7 V
C	11.8 V
E	3.0V

Q705	VOLT.
B	3.0V
C	0.01V
E	3.7V

Q707	VOLT.
B	0.6 V
C	0.006V
E	0.008V

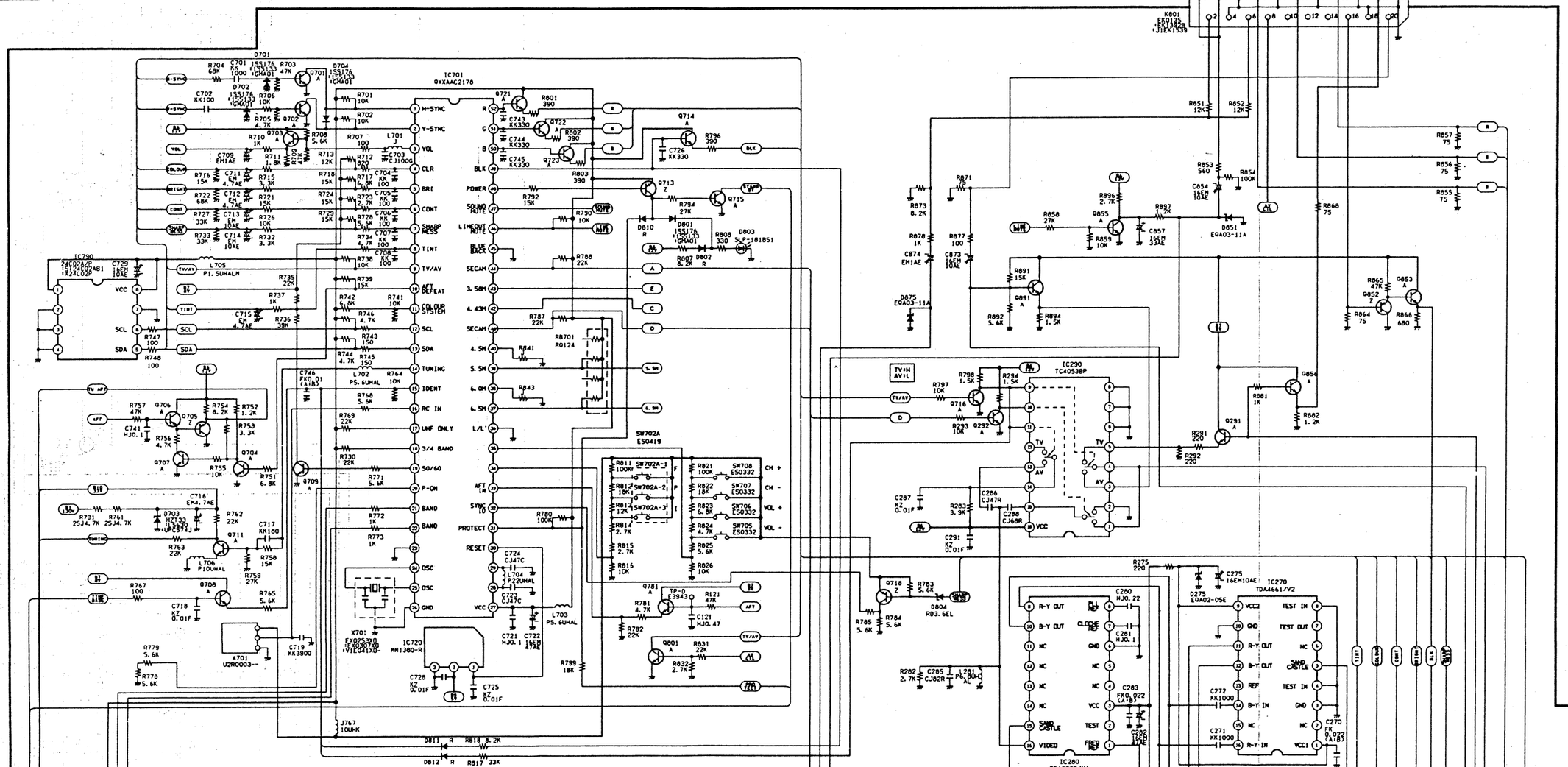
Q704	VOLT.
B	0.02V
C	8.9 V
E	0.004V

Q709	VOLT.
B	0.01V
C	5.8V
E	0.002V

Q711	VOLT.
B	0.4V
C	11.8V
E	0.007V

Q708	VOLT.
B	7.7V
C	7.8V
E	7.1V

Q719	VOLT.
B	4.8V
C	0.01V
E	5.0V



MAIN PCB ASSY E6BJP UE2798A

Note: M

Note: Voltage rating in decoder unit taken using teletext signal.

Q1001	
	VOLT.
B	0.3V
C	4.9V
E	0.5V

Q1003	
	VOLT.
B	1.5V
C	4.9V
E	1.1V

Q1002	
	VOLT.
B	0.2V
C	4.9V
E	0.5V

Q1004	
	VOLT.
B	4.2V
C	4.9V
E	3.6V

IC1001

4.8V 2.3V 3.6V 0.01V 0V 5.0V 2.1V 2.4V 2.5V 4.8V 0V 2.0V 4.8V 0V 0.2V 0.1V 0.4V 4.0V 4.2V 0V

Q1006	
	VOLT.
B	0.6V
C	0.02V
E	– V

Note: Model C21EF13EX – Teletext Decoder is an optional extra.

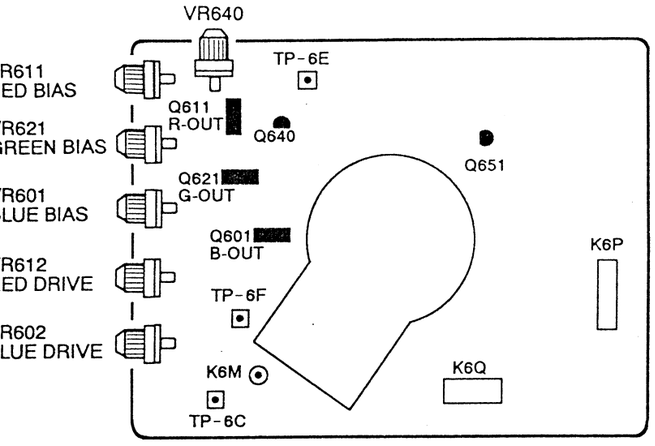
Q640	
	VOLT.
B	1.5V
C	0.01V
E	2.0V

Q601		
	VOLT.	WAVEFORM
B	2.4V	2.7Vp-p(HORIZ.)
C	133V	91Vp-p(HORIZ.)
E	1.9V	– – – –

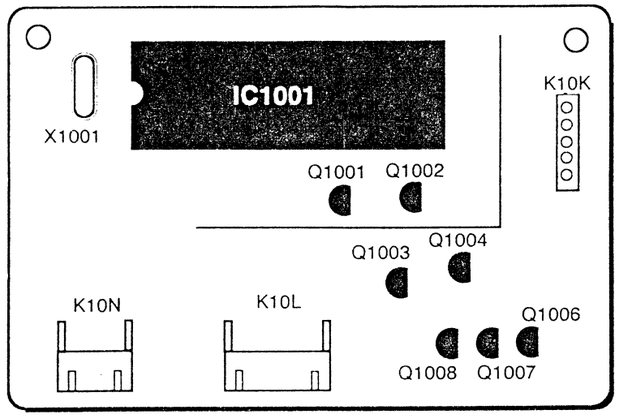
Q611		
	VOLT.	WAVEFORM
B	2.0V	3.1Vp-p(HORIZ.)
C	132V	100Vp-p(HORIZ.)
E	2.5V	– – – –

Q621		
	VOLT.	WAVEFORM
B	2.0V	3.0Vp-p(HORIZ.)
C	128V	94Vp-p(HORIZ.)
E	2.5V	– – – –

CRT UNIT



TELETEXT UNIT

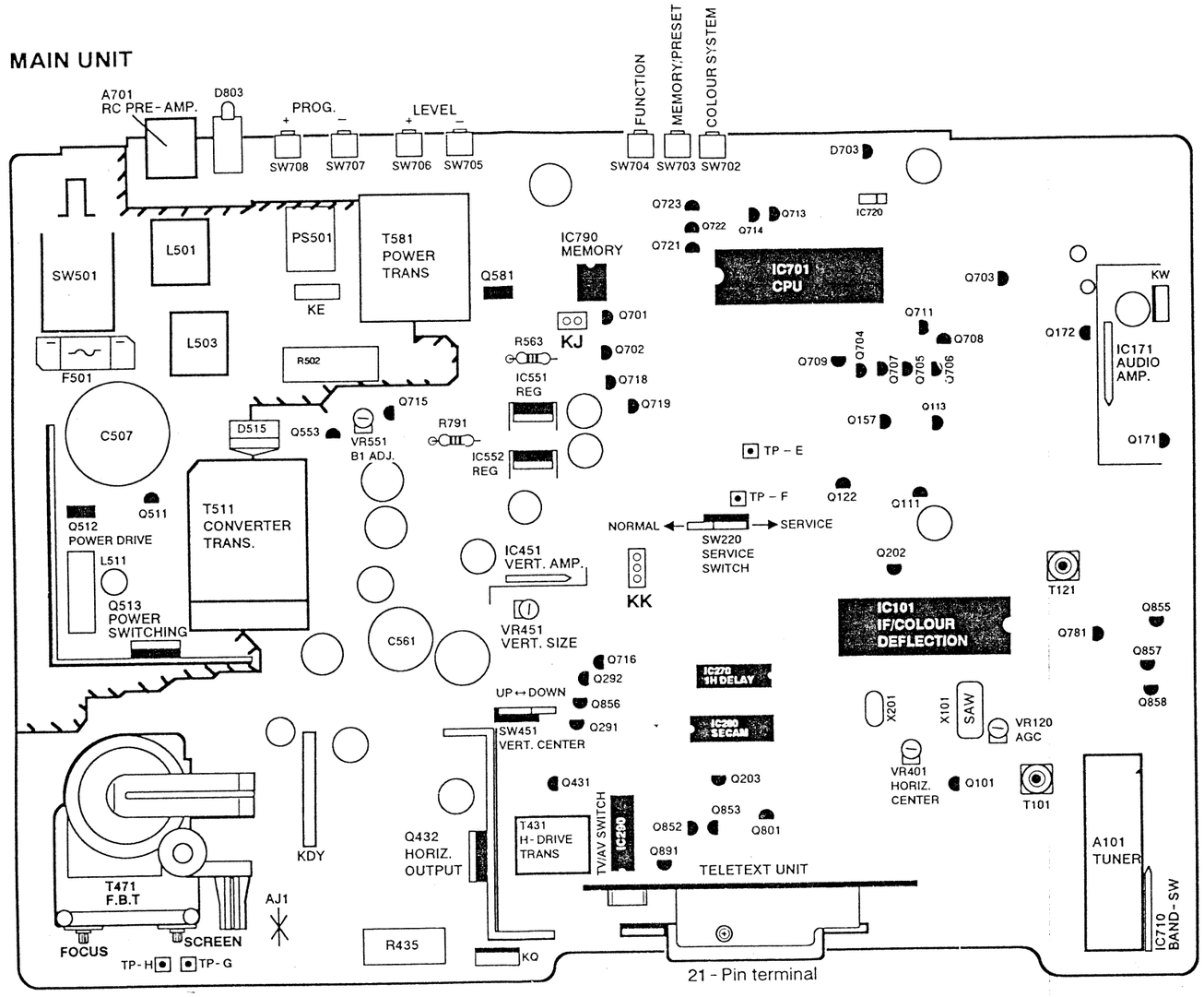


Note: Model C14EA13EE, C20EE13EE, C21EF13EE – Not equipped with the Teletext Decoder.
Model C20EE13EX, C21EF13EX – Teletext Decoder is an optional extra.

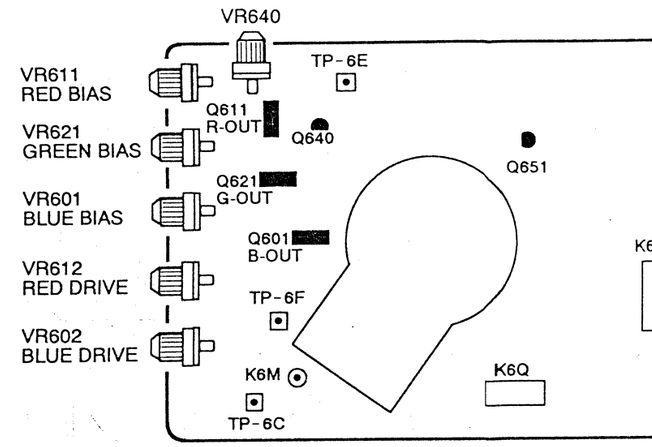
E6BKP
E6KKP
E6BJP
E6KJP
E6BZP
E6KZP
E6SZP

COMPONENT LOCATION

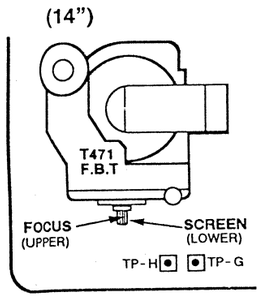
MAIN UNIT



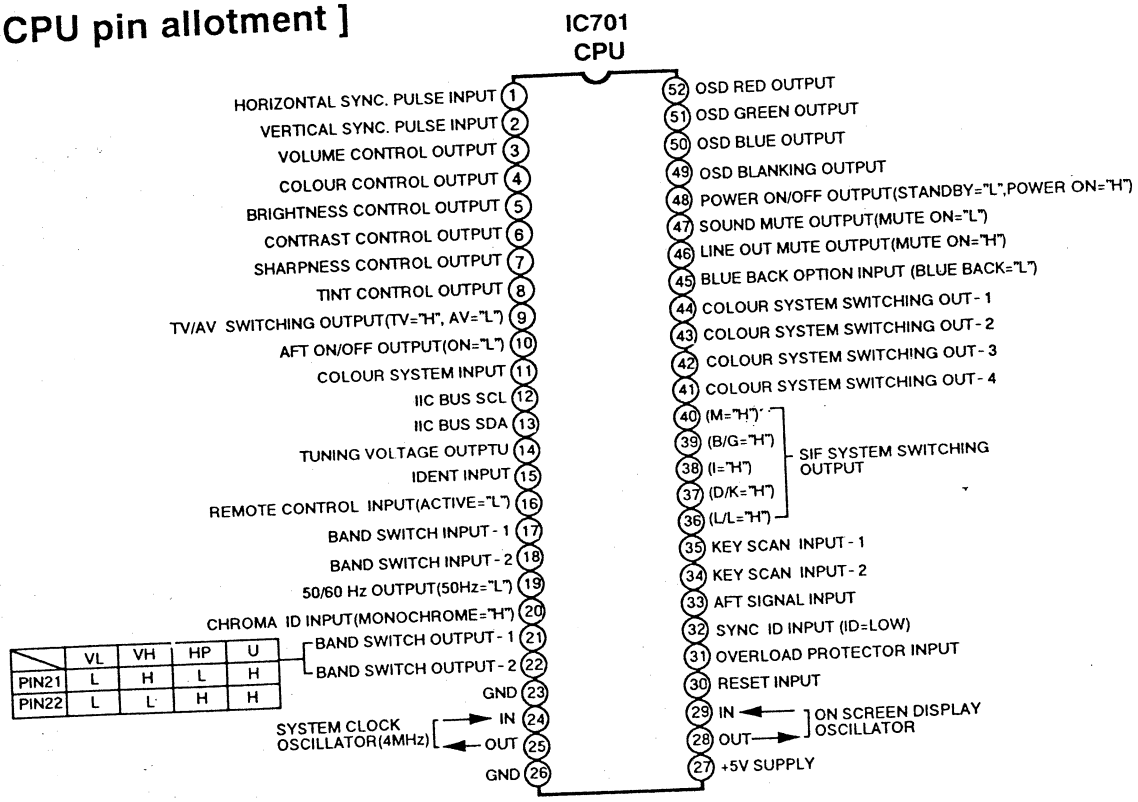
CRT UNIT



(14")



[CPU pin allotment]

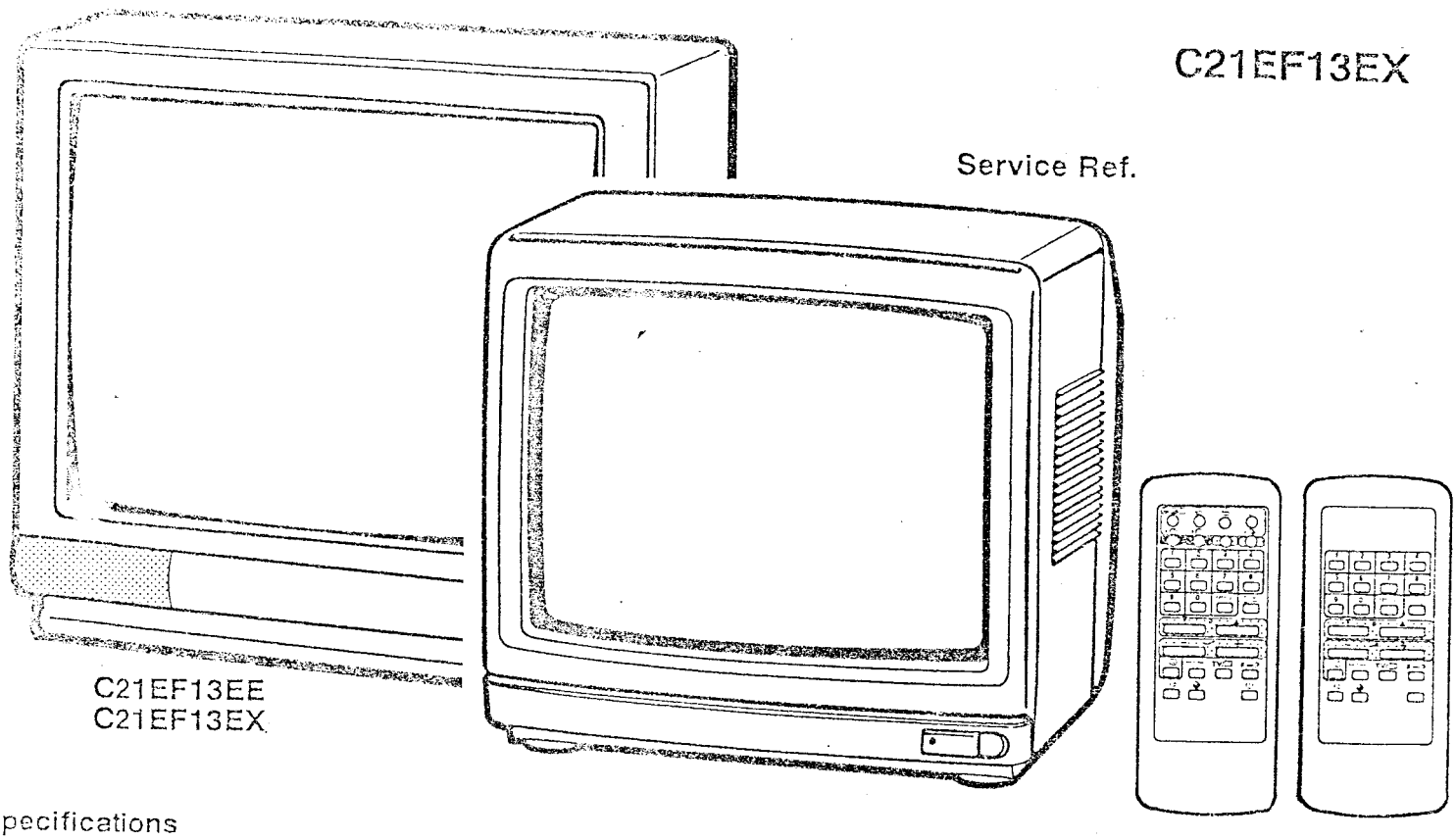

IC701
CPU
HORIZONTAL SYNC. PULSE INPUT 1
VERTICAL SYNC. PULSE INPUT 2
VOLUME CONTROL OUTPUT 3
COLOUR CONTROL OUTPUT 4
BRIGHTNESS CONTROL OUTPUT 5
CONTRAST CONTROL OUTPUT 6
SHARPNESS CONTROL OUTPUT 7
TINT CONTROL OUTPUT 8
TV/AV SWITCHING OUTPUT(TV="H", AV="L") 9
AFT ON/OFF OUTPUT(ON="L") 10
COLOUR SYSTEM INPUT 11
IIC BUS SCL 12
IIC BUS SDA 13
TUNING VOLTAGE OUTPTU 14
IDENT INPUT 15
REMOTE CONTROL INPUT(ACTIVE="L") 16
BAND SWITCH INPUT - 1 17
BAND SWITCH INPUT - 2 18
50/60 Hz OUTPUT(50Hz="L") 19
CHROMA ID INPUT(MONOCHROME="H") 20
BAND SWITCH OUTPUT - 1 21
BAND SWITCH OUTPUT - 2 22
GND 23
SYSTEM CLOCK OSCILLATOR(4MHz) IN 24
OUT 25
GND 26
52 OSD RED OUTPUT
51 OSD GREEN OUTPUT
50 OSD BLUE OUTPUT
49 OSD BLANKING OUTPUT
48 POWER ON/OFF OUTPUT(STANDBY="L",POWER ON="H")
47 SOUND MUTE OUTPUT(MUTE ON="L")
46 LINE OUT MUTE OUTPUT(MUTE ON="H")
45 BLUE BACK OPTION INPUT (BLUE BACK="L")
44 COLOUR SYSTEM SWITCHING OUT - 1
43 COLOUR SYSTEM SWITCHING OUT - 2
42 COLOUR SYSTEM SWITCHING OUT - 3
41 COLOUR SYSTEM SWITCHING OUT - 4
40 (M="H")
39 (B/G="H")
38 (I="H")
37 (D/K="H")
36 (L/L="H")
SIF SYSTEM SWITCHING OUTPUT
35 KEY SCAN INPUT - 1
34 KEY SCAN INPUT - 2
33 AFT SIGNAL INPUT
32 SYNC ID INPUT (ID=LOW)
31 OVERLOAD PROTECTOR INPUT
30 RESET INPUT
29 IN
28 OUT
ON SCREEN DISPLAY OSCILLATOR
27 +5V SUPPLY

	VL	VH	HP	U
PIN21	L	H	L	H
PIN22	L	L	H	H

SANYO

FILE NO. 13

SERVICE MANUAL Colour Television Model No.



C21EF13EX

Service Ref.

C21EF13EE
C21EF13EX

Specifications

Power Source	AC220 – 240Volts, 50Hz.
Colour System	PAL(B/G, D/K,)
and Television System	SECAM(B/G, D/K,)
	NTSC4.43(B/G, D/K)
Channel Coverage	VHF: E2 – E12, R1 – R12
	CATV: S1 – S20, X, Y, Z
	UHF: 21 – 69
Video IF	38.9MHz
Sound IF	33.4MHz(B/G),32.4MHz(D/K)
Aerial Input Impedance	75 Ω
Ext. Terminals	21-pin terminal (CENELEC standard)
	Headphone Jack: Mini. Jack x 1
Sound Output	C14EA13EE : 2.0W
(Peak music power output)	C20EE13EE/13EX/16EE : 3.5W
	C21EF13EE/13EX/16EE : 3.5W
Dimensions	C14EA13EE : 360(W)x327.5(H)x378(D)mm
	C20EE13EE/13EX/16EE : 499(W)x452(H)x471(D)mm
	C21EF13EE,C21EF13EX,C21EF16EE : 516(W)x473(H)x495(D)mm
Weight	C14EA13EE : approx. 9.5Kg
	C20EE13EE/13EX/16EE : approx. 19kg
	C21EF13EE/13EX/16EE : approx.20.5kg

Specifications subject to change without notice.

E6SZP/E6KZP/E6KKP/E6KJP/E6BZP/E6BKP/E6BJP

Give complete "SERVICE REF. No." for parts order or servicing. It is shown on the rating plate at the cabinet back of the unit.

This T.V. receiver will not work properly in foreign countries where the television transmission system and power source differ from the design specifications. Refer to the specification table.

REFERENCE NO. SM 520066

Q701	
	VOLT.
B	- 0.1 V
C	3.4 V
E	0.01V

Q702	
	VOLT.
B	0.01 V
C	5.6 V
E	0.06V

Q721	
	VOLT.
B	0.002V
C	5.0V
E	0.002V

Q722	
	VOLT.
B	0.01 V
C	5.0V
E	0.01V

Q723	
	VOLT.
B	0.01V
C	5.0V
E	0.01V

Q714	
	VOLT.
B	0.01V
C	5.0V
E	0.1V

Q891	
	VOLT.
B	2.1V
C	7.8V
E	1.4V

Q855	
	VOLT.
B	0.008V
C	5.1 V
E	0.004V

Q292	
	VOLT.
B	0.02V
C	11.8V
E	0.006V

Q291	
	VOLT.
B	3.0V
C	7.6V
E	2.3V

Q856	
	VOLT.
B	3.0 v
C	7.8V
E	2.4V

Q703	
	VOLT.
B	0.35 V
C	11.8 V
E	0.04V

IC790
MEMORY

0.008V	1	8	5.0V
0.007V	2	7	0.001V
0.005V	3	6	5.0V
0.006V	4	5	5.0V

Q713	
	VOLT.
B	5.0V
C	0.01V
E	5.0V

Q715	
	VOLT.
B	-0.05V
C	35 V
E	0.007V

Q781	
	VOLT.
B	3.8V
C	7.8V
E	3.2V

Q716	
	VOLT.
B	0.6V
C	0.07V
E	0.007V

Q718	
	VOLT.
B	5.0V
C	0.01V
E	5.0V

Q857	
	VOLT.
B	2.9V
C	4.4V
E	2.2V

Q858	
	VOLT.
B	4.5V
C	0.002V
E	5.1V

IC290
TV/AV SWITCH

0.07V	9	8	0.01V
11.8V	10	7	0.01
0.07V	11	6	0.01
11.8V	12	5	1.1V
11.8V	13	4	1.1V
11.8V	14	3	1.4V
1.1V	15	2	0.003V
11.8V	16	1	1.1V

IC280
SECAM

1.4V	1	8	4.1V
1.4V	2	7	4.6V
1.3V	11	6	0.014V
1.2V	12	5	0.07V
1.1V	13	4	- V
1.1V	14	3	7.7V
0.8V	15	2	1.1V
0.007V	16	1	1.6V

IC270
1H DELAY

4.9V	1	8	0.006V
0.01V	2	7	0.7V
3.1V	11	6	0.7V
3.1V	12	5	0.8V
-	13	4	0.01V
1.3V	14	3	0.005V
1.2V	15	2	-
1.3V	16	1	4.9V

Q706	
	VOLT.
B	3.7 V
C	11.8 V
E	3.0V

Q705	
	VOLT.
B	3.0V
C	0.01V
E	3.7V

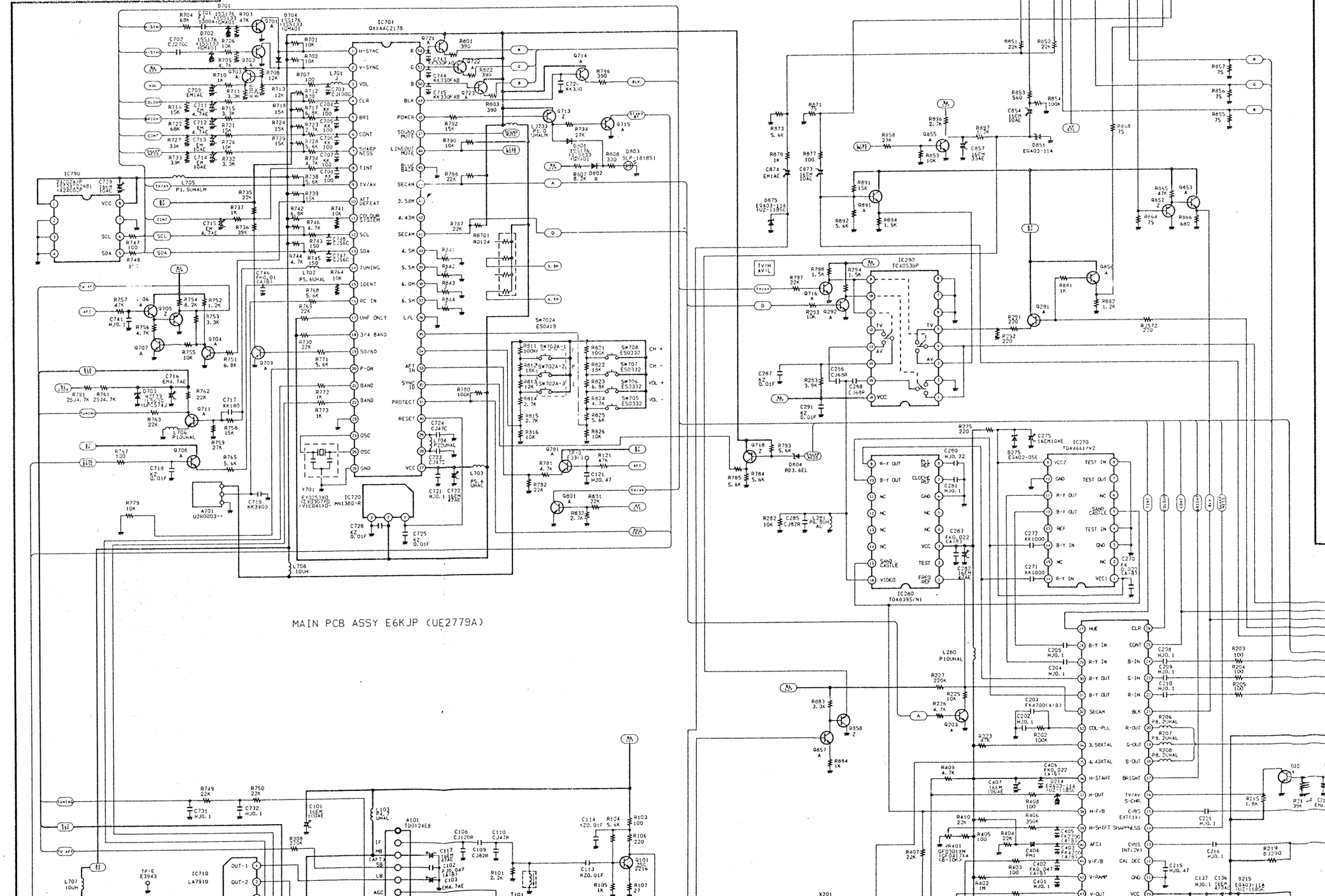
Q707	
	VOLT.
B	0.6 V
C	0.006V
E	0.008V

Q704	
	VOLT.
B	0.02V
C	8.9 V
E	0.004V

Q709	
	VOLT.
B	0.01V
C	5.8V
E	0.002V

Q711	
	VOLT.
B	0.4V
C	11.8V
E	0.007V

Q708	
	VOLT.
B	7.7V
C	7.8V
E	7.1V



NOTES:
LIST OF REPLACE

(DIODE)

	SANYO CO
R	700000

(NPN. TR)

	SANYO CODE
A	7QT00214

(PNP. TR)

	SANYO CODE
Z	7QT00418

IC280
ECAM

8	4.1V
7	3.6V
6	5.14V
5	0.07V
4	– V
3	7.7V
2	1.1V
1	1.6V

IC270
1H DELAY

9	4.9V
10	0.01V
11	3.1V
12	3.1V
13	–
14	1.3V
15	1.2V
16	1.3V
8	0.008V
7	0.7V
6	0.7V
5	0.8V
4	0.01V
3	0.005V
2	–
1	4.9V

Teletext Decoder is an optional extra.

Note: Voltage rating in decoder unit taken using teletext signal.

Q1001

	VOLT.
B	0.3V
C	4.9V
E	0.5V

Q1003

	VOLT.
B	1.5V
C	4.9V
E	1.1V

Q1002

	VOLT.
B	0.2V
C	4.9V
E	0.5V

Q1004

	VOLT.
B	4.2V
C	4.9V
E	3.6V

IC1001

0.02V 0.02V 4.8V 4.8V 4.8V 4.5V 4.8V 4.8V 0.02V 4.8V 4.8V 4.8V 4.8V 4.8V 4.8V 5.1V 5.1V 0.03V 2.3V 4.8V
4.8V 2.3V 3.9V 0.01V 0V 5.0V 2.1V 2.4V 2.5V 4.9V 0V 2.0V 4.9V 0V 0.2V 0.1V 0.4V 4.0V 4.2V 0V

Q1006

	VOLT.
B	0.6V
C	0.02V
E	– V

NOTES:
LIST OF REPLACEABLE PARTS.

(DIODE)

	SANYO CODE	DIODE
R	70000019	1S1555, 1S2473, 1S2976, 05442, 1N4148

(NPN. TR)

	SANYO CODE	2SC536	2SC945A	2SC1815	2SC1740	2SC1740S
A	70T00214	E,F,G	P,Q,R	O,Y,G	Q,R,S	Q,R,S

(PNP. TR)

	SANYO CODE	2SA606	2SA564A	2SA1015	2SA933	2SA933S
Z	70T00418	E,F	Q,R	O,Y,G	Q,R	Q,R

ASSY. PWB. CRT E6PKH 1AA0B10E14300

Q640

	VOLT.
B	1.5V
C	0.01V
E	2.0V

Q601

	VOLT.	WAVEFORM
B	2.4V	2.7Vp-p(HORIZ.)
C	133V	91Vp-p(HORIZ.)
E	1.9V	

Q611

	VOLT.	WAVEFORM
B	2.0V	3.1Vp-p(HORIZ.)
C	132V	100Vp-p(HORIZ.)
E	2.5V	

Q621

	VOLT.	WAVEFORM
B	2.0V	3.0Vp-p(HORIZ.)
C	128V	94Vp-p(HORIZ.)
E	2.5V	

MAIN PCB ASSY E6KJP (UE2779A)

IC710 BAND SWITCH

-0.002	1
11.7V	2
3.3V	3
0V	4
-0.001	5
12.2V	6
0.1V	7
-0.004	8
11.8V	9

Q101	VOLT.
B	1.2V
C	0.4V
E	6.2V

Q511	VOLT.
B	13.5V
C	0.8V
E	13.5V

Q512	VOLT.	WAVEFORM
B	– 0.1V	4.2Vp-p
C	– 0.1V	4.4Vp-p
E	0V	-----

Q513	VOLT.	WAVEFORM
B	-- 0.8V	5.0Vp-p
C	315V	600Vp-p
E	0V	-----

Q553	VOLT.
B	6.7V
C	35.5V
E	6.2 V

Q203	VOLT.
B	0.02V
C	1.6V
E	0.01V

Q202	VOLT.
B	0.6V
C	0.07V
E	– V

Q154	VOLT.
B	4.7V
C	7.8V
E	4.0V

Q156	VOLT.
B	4.7V
C	7.8V
E	4.1V

Q122	VOLT.
B	3.1V
C	33.1V
E	2.4V

THE SERVICE PRECAUTION:
The area enclosed by this line(⚠) is directly connected with AC mains voltage. When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

SANYO

COLOUR TELEVISION

A7-A CHASSIS SERIES

SERVICE

Part No. 1AA6P2P0412 - - E6KKP

PRODUCT SAFETY NOTICE:
Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a mark ⚠ in this circuit diagram show components whose values have special significance to product safety. It is particularly recommended that only parts specified on the part service manual be used for components replacement pointed out by the mark.

CIRCUIT DIAGRAM NOTICE:
1. All resistance value are in ohms, K=1,000, M=1.000.000.
2. All resistance rated wattages are 1/6W unless otherwise noted.
3. Excepting electrolytic capacitors, all capacitance values of less than 1 are expressed in μ F and more than 1 are pF.
4. All capacitance rated voltages are 50V unless otherwise noted.
5. All inductance values are in μ H.
6. Voltage readings taken with taken with a "VTVM" are from point indicated chassis ground. Voltage readings taken by using a colour bar signal are with all controls at normal position. Some voltages may vary with signal strength.
7. Waveforms were taken with colour bar and controls adjusted for normal picture. Waveforms were taken by using a wide band oscilloscope and a low capacity probe.
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.

9. Expression of capacitance and resistance in circuit diagram.

Capacitance(Example)
1000 C M 2000 D
- Characteristic
- Capacitance value(220pF)
- Allowable error (± 20%)
- Kind (Ceramic)
- Rated voltage (1.000V)

J= ± 5%, K= ± 10%, M= ± 20%
T,A,U,D: Electrolytic
C,K,B,Ceramic
F:Mylar film
M,N:Polypropylene
Z:Metallized paper

Resistance(Example)
1/2 N J 1 2
- Resistance value (1.2 Ω)
- Allowable error(± 5%)
- Kind(M.carbon)
- Rated wattage(1/2W)

D:Carbon
N:Metaliz carbon
S:Oxide metalized
W:Wire wounding
C:Solid

C	128V	94Vp-p(HORIZ.)
E	2.5V	— — —

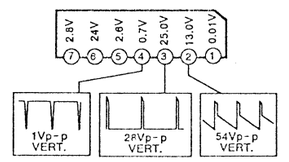
Q432		
	Volt.	Waveform
B	2.5V	12Vp-p HORIZ.
C	116V	820Vp-p HORIZ.
E	2.5V	— — —

Q431		
	Volt.	Waveform
B	0.3V	0.6Vp-p HORIZ
C	13.9V	45Vp-p HORIZ.
E	0 V	— — —

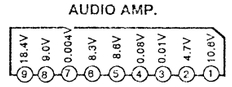
IC101

5.7V	27	26	2.0V
3.8V	28	25	2.6V
3.8V	29	24	3.3V
1.4V	30	23	3.3V
1.4V	31	22	3.3V
1.6V	32	21	0.1V
4.3V	33	20	2.7V
1.9V	34	19	2.7V
2.0V	35	18	2.6V
7.8V	36	17	4.2V
0.7V	37	16	0.07V
0.8V	38	15	3.4V
3.2V	39	14	3.0V
3.7V	40	13	4.2V
2.5V	41	12	3.2V
2.4V	42	11	0.005V
0.7V	43	10	7.8V
3.6V	44	9	0.01V
3.9V	45	8	1.7V
3.9V	46	7	3.1V
3.3V	47	6	3.8V
4.3V	48	5	4.9V
1.4V	49	4	7.7V
3.4V	50	3	5.8V
4.7V	51	2	5.8V
6.5V	52	1	2.9V

IC451
VRT. DEF.



IC171
AUDIO AMP.



Q203	
	VOLT.
B	0.02V
C	1.6V
E	0.01V

Q202	
	VOLT.
B	0.6V
C	0.07V
E	– V

Q154	
	VOLT.
B	4.7V
C	7.8V
E	4.0V

Q156	
	VOLT.
B	4.7V
C	7.8V
E	4.1V

Q122	
	VOLT.
B	3.1V
C	33.1V
E	2.4V

Q124	
	VOLT.
B	2.3V
C	0.007V
E	3.0V

Q113	
	VOLT.
B	4.6V
C	7.8V
E	3.3V

Q111	
	VOLT.
B	3.1V
C	7.8V
E	2.4V

Q172	
	VOLT.
B	0.6V
C	0.01V
E	-0.001V

Q171	
	VOLT.
B	11.3V
C	11.8V
E	10.6 V

9. Expression of capacitance and resistance in circuit diagram.

Capacitance(Example)

1000 C M 2000 D
- C: Characteristic
- 1000: Capacitance value(220pF)
- M: Allowable error (± 20%)
- C: Kind (Ceramic)
- 2000: Rated voltage (1.000V)
- D: J= ± 5%, K= ± 10%, M= ± 20%

T,A,U,D: Electrolytic; C,K,B,Ceramic; F:Mylar film; M,N:Polypropylene; Z:Metalized paper

Resistance(Example)

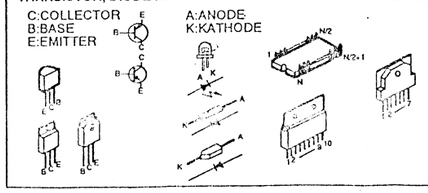
1/2 N J 1.2
- 1.2: Resistance value(1.2 Ω)
- J: Allowable error (± 5%)
- N: Kind(M.carbon)
- 1/2: Rated wattage(1/2W)

D:Carbon; H:Solid carbon; S:Oxide metalized; W:Wire wounding; C:Solid

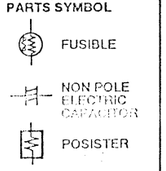
TRANSISTOR, DIODE AND INTEGRATED CIRCUIT TERMINAL GUIDE

C:COLLECTOR
B:BASE
E:EMITTER

A:ANODE
K:KATHODE

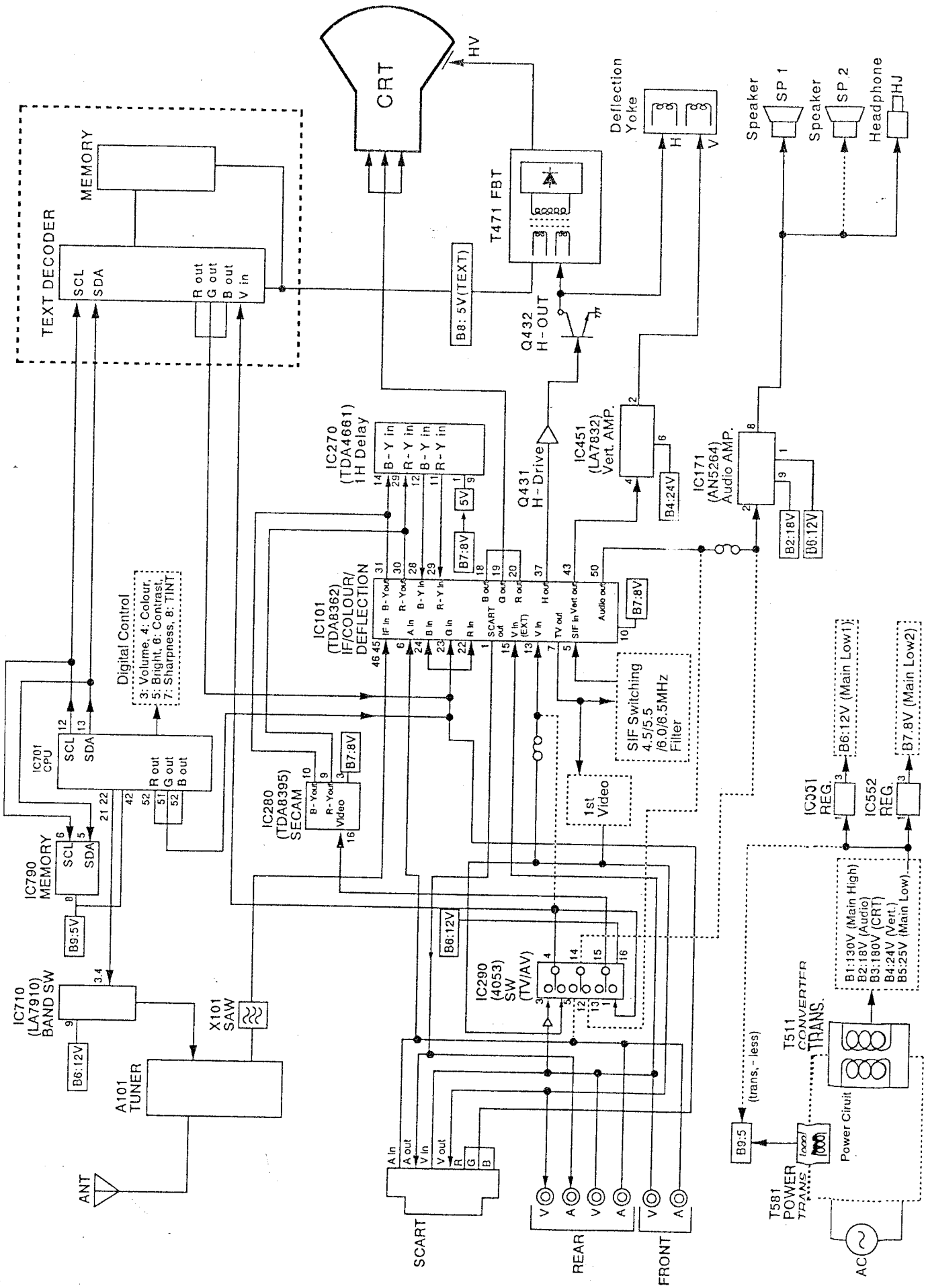


PARTICULAR PARTS SYMBOL

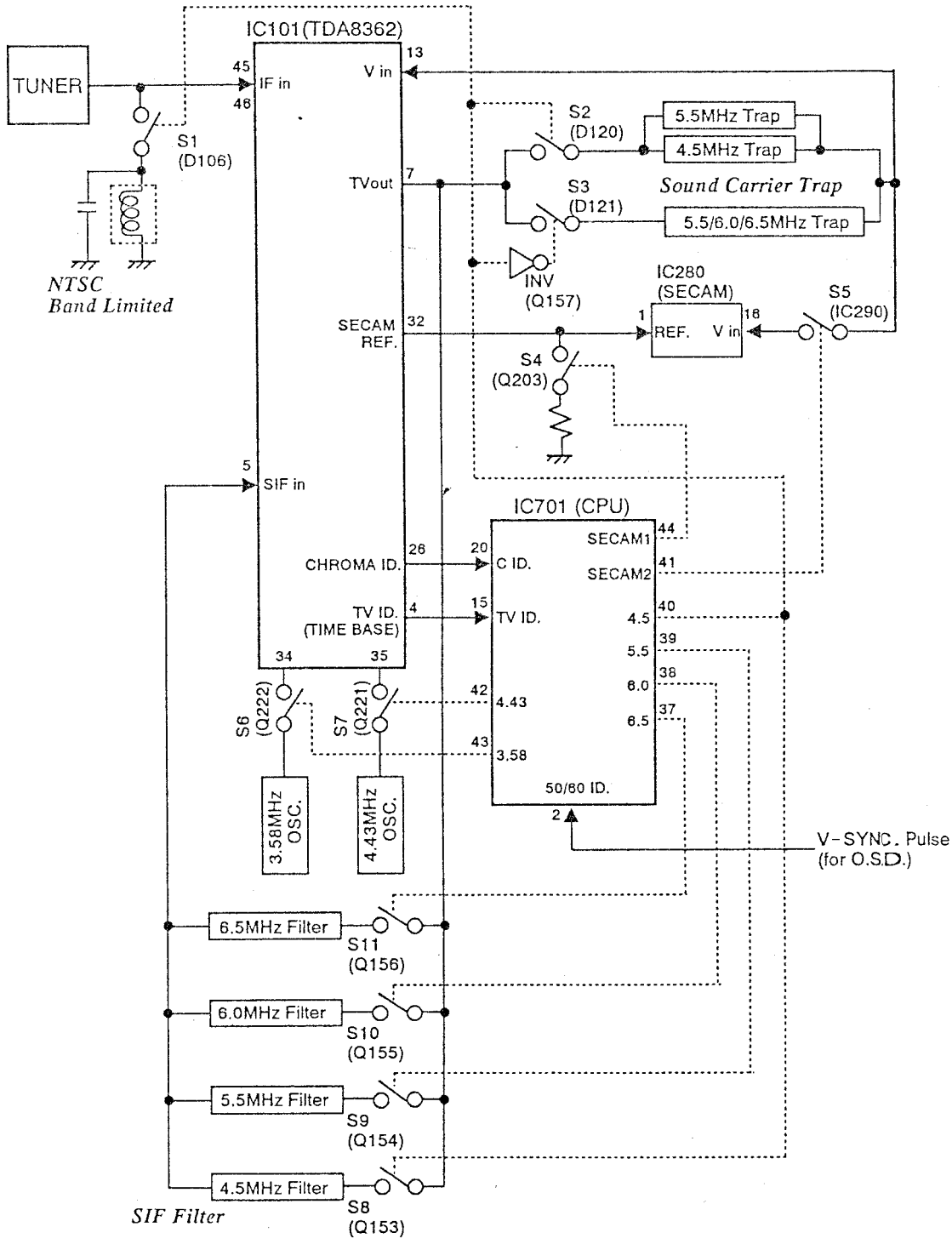


10. Parts specified with " X " are not installed in this model.
11. Parts specified with "J " are just jumper wires.

Block Diagram



Block Diagram



1.POWER SUPPLY

The power supply circuit of the A7 - A chassis is composed of a rectifier smoothing circuit, an oscillation circuit, a control circuit and an output rectifier circuit.

The AC input voltage is full-wave rectified by the rectifier smoothing circuit, and an unstable DC voltage is generated at both terminals of the smoothing capacitor C507. This voltage is input to the oscillation circuit. The oscillation circuit is provided with a blocking oscillator circuit that switches the switching transistor Q513 ON and OFF, and an oscillation frequency and a duty square wave pulse are generated in the input windings according to operation of the control circuit. A square-wave pulse whose size is dependent on the turn ratio of the input and output windings is obtained in the output winding. This is rectified in the output rectifier circuit, and the desired DC voltage is obtained.

2.IF & DEFLECTION

The IF output signal from the tuner passes through the SAW filter, and it is input to pin45 and pin46 of IC101.

The signal input to the IC passes through the IF amplifier, video detection and video amplifier circuits and is output from pin7 as a composite video signal.

And after this signal is converted to impedance at Q124, supplies to the video and chroma amplifier stages passed through the AV switching circuit of IC290.

The output signal from pin7 passes through the 5.5MHz(B/G)/6.0MHz(I)/6.5MHz(D/K)/4.5MHz(M) filtering circuit, and it is input to pin5 of IC101. The signal input to the IC passes through the SIF amplifier, FM detector, external audio switch and audio output circuit, and it is then output from pin50 as audio drive signal.

The sync.-separation circuit separates the video signals applied to pin13 or pin15 to vertical- and horizontal-sync. signals respectively.

The horizontal oscillator requires no external components and is fully integrated. The oscillator is always running when the start-pin36 is supplied with 8V.

Horizontal drive signal is output from pin37. VR401 is for adjustment of the horizontal centering.

The separated vertical sync. signal from sync. separation circuit passes through the vertical-separation circuit, and applied to trigger divider circuit.

The horizontal oscillation pulse and input vertical sync. pulse are monitored by the trigger divider circuit, and switching 50Hz and 60Hz system, the vertical amplitude automatically adjusted for 50Hz and 60Hz.

The output signal from the trigger divider is triggered vertical oscillation circuit consisting of R401,C402 and pin42, and vertical drive pulse is output from pin43. VR451 is for changing the amount of AC feedback applied to pin41 and for adjustment of the vertical amplitude.

3.VIDEO CHROMA

The composite video signal output from the pin7 of IC101 passes through Q122/ Q124, and it is supplied to pin13. The external video signal output from SCART or other AV terminal passes through IC290, and it is supplied to pin15. The video signal input to pin13 or pin15 is separated to luminance (Y) signal and chroma signal in IC101. These pins are used in common with H/V-sync. separation input.

The peaking of Y signal is adjusted by DC voltage of pin14.("SHARPNESS" control)

The chroma signal is divided into R-Y, B-Y chroma signals, demodulated in IC101,

and output from pin30 (R-Y) and pin31 (B-Y). These chroma signals pass through the 1H delay line circuit (IC270), and they are input to pin29 (R-Y) and pin28 (B-Y). These R-Y/B-Y signals pass through RGB matrix circuit and RGB selector circuit of IC101. The internal RGB signals are generated in RGB matrix circuit and the RGB selector, consisting linear amplifiers, clamps and selects either the internal RGB signals or the external RGB signals input from pin22 (R) , pin23 (G), pin24 (B). Selection is controlled by the voltage at the RGB switch control (pin21) and mixed RGB modes are possible since RGB switching is fast.

The RGB switch also functions as a fast blanking pin by blanking the RGB output stages; here internal and external RGB signals are overruled.

The colour gain is controlled by DC voltage of pin26. ("COLOUR" control)

The contrast control voltage present at pin25 controls the RGB signal gain, and the brightness control voltage present at pin17 controls DC level of RGB signals.

The RGB signals are finally buffered before being available at the RGB output pins [pin20 (R), pin19 (G), pin18 (B)].

4.AUDIO OUTPUT

The audio signal output from pin50 of IC101 is input to pin2 of IC171 and passes through the pre-amplifier circuit and drive circuit, after which it is input to the audio amplifier. The audio amplifier is an SEPP (Single-Ended Push Pull) type and output to pin8 to direcly drive the speaker.

5.VERTICAL OUTPUT

An IC (LA7832) is used for the vertical output circuit in this chassis. The vertical drive pulse from pin43 of IC101 is input to pin4 of IC451. This pulse drives IC451, and vertical scanning is performed. In the first half of scanning a deflecting current is output from pin2 and passes through the following path:

Vcc(B4) ➡ D451 ➡ pin3 ➡ pin2 ➡ DY ➡ C461 ➡ VR451/R459.

An electric charge is then stored in C461. In the last half of scanning the current path is:

C461 ➡ DY ➡ pin2 ➡ pin1 ➡ VR451/R459 ➡ C461

In this way, an amplifying sawtooth waveform current flows directly to DY to perform electron beam deflection. Next, in the first half of the blanking period the vertical drive pulse suddenly becomes OFF, and in order to reduce the current flowing to DY, the current path becomes as follows by the inductance of DY:

DY ➡ pin2 ➡ pin1 ➡ VR451/R459 ➡ C461 ➡ DY

Also, when the charge of DY has dissipated, the current path becomes:

Vcc ➡ pin6 ➡ pin7 ➡ C452 ➡ pin3 ➡ pin2 ➡ DY ➡ C461 ➡ VR451/R459

and when the prescribed current value is reached, the vertical drive pulse becomes ON. This completes one cycle.

6.HORIZONTAL OUTPUT

A horizontal oscillation signal is output from pin37 of IC101 and switches the drive transistor Q431. This switching signal is current amplified by the drive transformer T431 and drives the output transistor Q432. When Q432 becomes ON, an amplifying current flows directly to DY through

C441/C442 ➡ L441/R441 ➡ DY ➡ Q432-**C** ➡ Q432-**E**

and deflection is performed in the last half of the scanning period. Next, when Q432 becomes OFF, the charge that had been stored in DY up to that point releases a resonance current to the resonant capacitors C435 and C436 and charges them. The current stored in C435 and C436 is then flowed back to DY, and an opposite charge is then stored in DY. This opposite charge then switches the dumper diode in Q432 ON, the resonance state is completed, and an amplifying current is then flowed again directly to DY through the dumper diode.
By this means, deflection in the first half of the scanning period is performed , and when Q432 becomes ON at the end of the first half of the scanning period, deflection during the last half is begun, thus completing one cycle.

7.SYSTEM SWITCHING

(For multi-standard model)

The system switches (S1 - S11) are used for multi-standard model.
(Refer to Block Diagram of system switching circuit)

S1: Switch for band-limiting on NTSC(3.58) mode (D106)
This switch is driven by ON/OFF signal of CPU (pin40).

S2: Switch for sound carrier trap on NTSC(3.58) mode (D120)
This switch is driven by signal of CPU (pin40) too.

S3: Switch for sound carrier trap except NTSC(3.58) mode (D121)
This switch is driven by inverting signal of CPU (pin40).

S4: System switch for forced SECAM mode (Q203)
This switch is driven by ON/OFF signal of CPU (pin44).

S5: Input switch for SECAM colour demodulation (IC290)
This switch is driven by ON/OFF signal of CPU (pin41).

S6: System switch for forced 4.43 mode (Q222)
This switch is driven by ON/OFF signal of CPU (pin43).

Note: When the colour system is set to "AUTO", both S6 and S7 will turn on.

S7: System switch for forced 3.58 mode (Q221)
This switch is driven by ON/OFF signal of CPU (pin42).

S8: System switch for 4.5MHz filtering on NTSC(3.58) mode (Q153)
This switch is driven by ON/OFF signal of CPU (pin40).

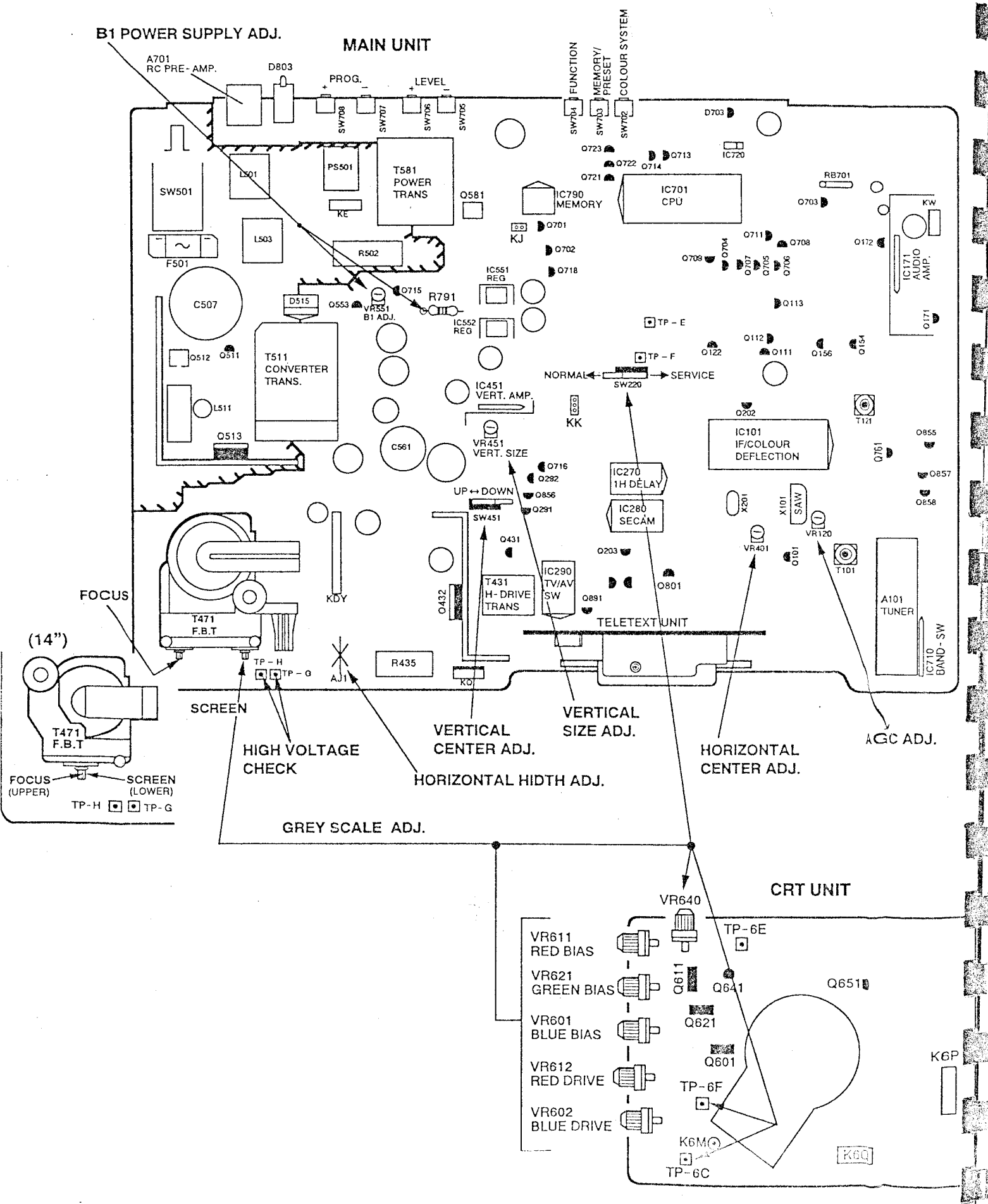
S9: System switch for 5.5MHz filtering on B/G mode (Q154)
This switch is driven by ON/OFF signal of CPU (pin39).

S10: System switch for 6.0MHz filtering on I mode (Q155)
This switch is driven by ON/OFF signal of CPU (pin38).

S11: System switch for 6.5MHz filtering on D/K mode (Q156)
This switch is driven by ON/OFF signal of CPU (pin37).

Note: When the TV system is set to "AUTO", S8, S9, S10 and S11 will turn on.

Service Adjustments



Service Adjustments

SAFETY PRECAUTIONS : An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

X-RADIATION PRECAUTION The primary source of X-RADIATION in television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emission. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintain within specified limit. Refer to this service manual for specific high voltage limits. If high voltage exceeds specified limits, take necessary corrective action. Carefully follow the instructions for + B1 volt power supply adjustment, and high voltage check to maintain the high voltage within the specified limits.

AGC ADJUSTMENT

NOTE; Do not attempt this adjustment with weak signal.

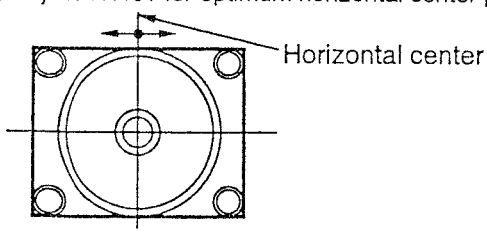
(1) Tune the receiver to most clearest (or strongest) VHF station in your area. Set the brightness and contrast controls to maximum. Set the colour control to minimum.
(2) Set AGC (VR120) control to mid-range.
(3) Turn AGC control in direction which causes snow to appear, then in the opposite direction until the snow just disappears.

B1 POWER SUPPLY ADJUSTMENT

(1) Connect DC meter to R791 and the ground.
Set the +B1 adjustment control (VR551) to mid-range.
(2) Set the brightness and contrast to normal.
Tune the receiver to an active channel and synchronized picture.
(3) Adjust +B1 adjustment control (VR551) for 130 ± 0.5 volt DC.

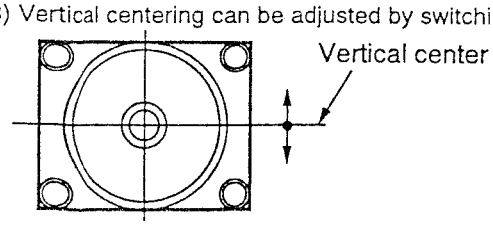
HORIZONTAL CENTER ADJUSTMENT

(1) Receive the monochrome circular pattern.
(2) Set the brightness and contrast to normal.
(3) Adjust VR401 for optimum horizontal center position.



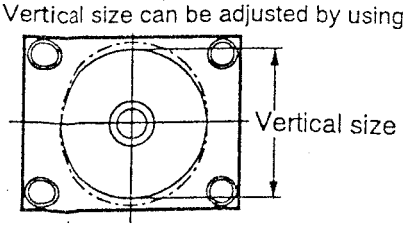
VERTICAL CENTER ADJUSTMENT

(1) Receive the monochrome circular pattern.
(2) Set the brightness and contrast to normal.
(3) Vertical centering can be adjusted by switching SW451.



VERTICAL CENTER ADJUSTMENT

(1) Receive the monochrome circular pattern.
(2) Set the brightness and contrast to normal.
(3) Vertical size can be adjusted by using VR451.



FOCUS ADJUSTMENT

(1) Receive the monochrome circular pattern.
(2) Set the brightness to normal and contrast to maximum.
(3) Adjust the focus control on the F.B.T for the best focus on the screen center.

GREY SCALE ADJUSTMENT

(1) Receiver the monochrome circular pattern.
(2) Set the brightness and the contrast to normal, the colour to minimum.
(3) Set the service switch (SW220) at the service side.
(4) Connect a oscilloscope to TP-6C(+) and TP-6F(-).
(Probe attenuation ➡ 10 : 1, Sync.V-sensitivity ➡ 0.05V
Signal coupling ➡ DC)

Using VR640, adjust "a" to be 0V.

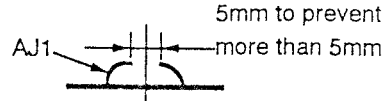
(5) Set the drive volume (VR602 and VR612) at their mechanical center.
(6) Set the bias volume (VR601, VR621 and VR611) to minimum. (fully counter clockwise).
(7) Turn the screen volume on the FBT to obtain just visible one coloured line.
(8) Adjust each bias volume (VR601-blue, VR621-green and VR611-red) alternately until a dim white line produced.
(9) Set the service switch (SW220) at the normal side.
(10) Adjust the drive volume (VR602-blue and VR612-red) alternately to produce normal black and white picture.
(11)Check for proper grey scale tracking at all brightness levels.

NOTE : If the grey scale adjustment is made after picturetube replacement, check high voltage and sub-brightness adjustment.

H-WIDTH & HIGH VOLTAGE CHECK

(1) Receive the monochrom circular pattern.
(2) Set the brightness and contrast to maximum.
(3) If the picture is too wide or narrow,cut or short the "AJ1" on the main unit. When AJ1 is shorted, the horiz. width increase. When AJ1 is cut, the horiz. width decrease.

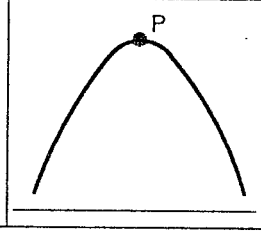
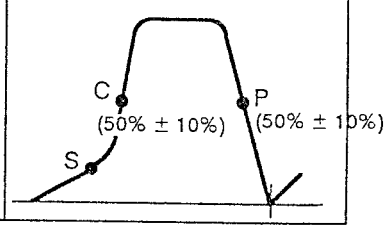
Important Note: If AJ1 is cut, its gap must be more than 5mm to prevent sparks.

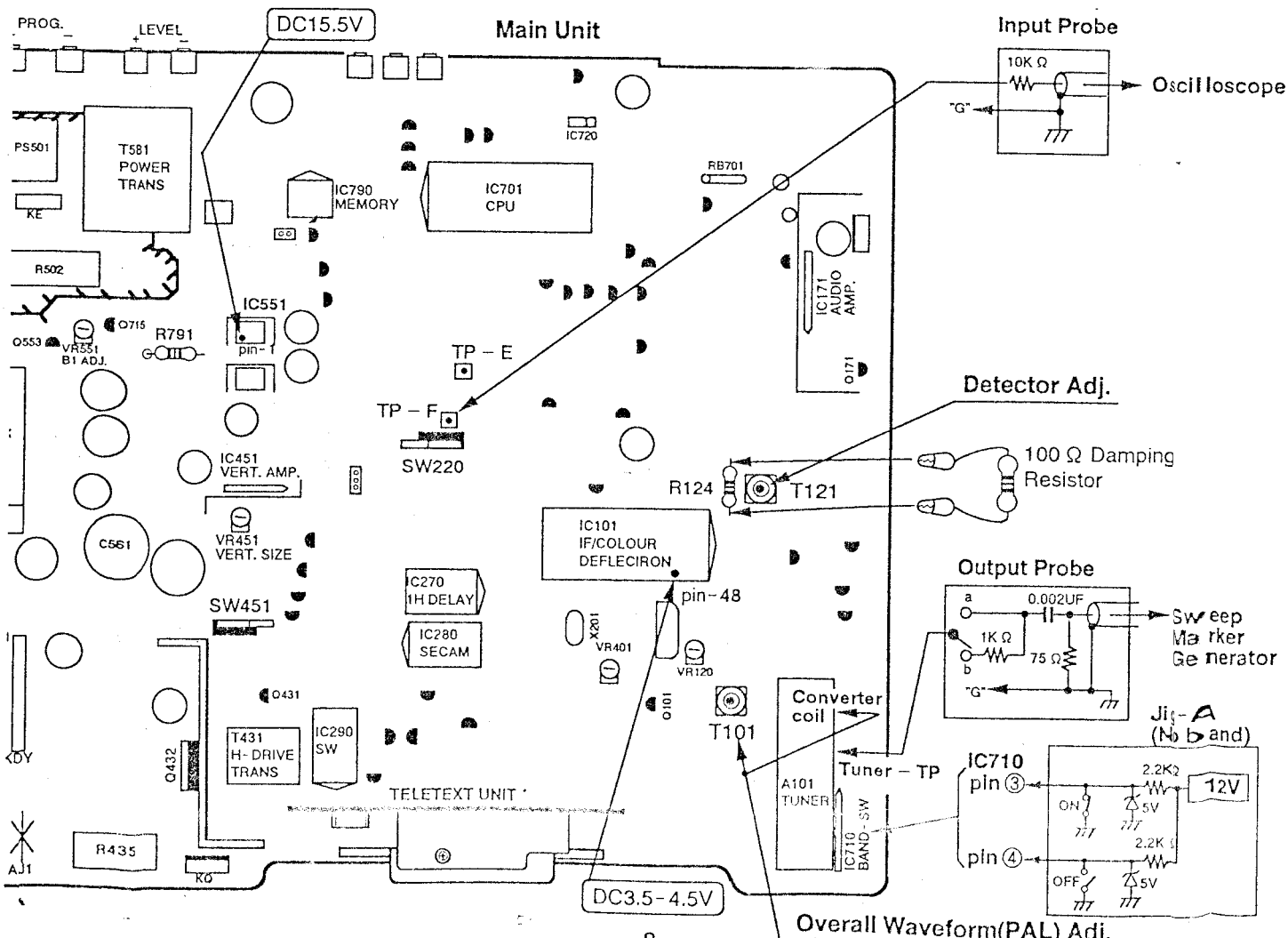


(4) Connect a high voltage probe to anode lead of the picture tube.
(5) The high voltage must be between 20-22KV(14",16"), 24-26KV(20", 21").

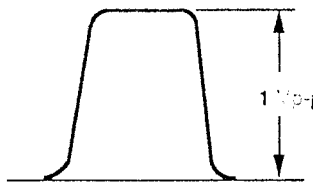
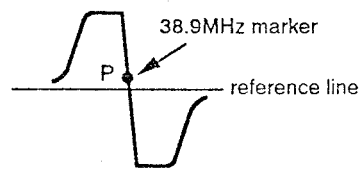
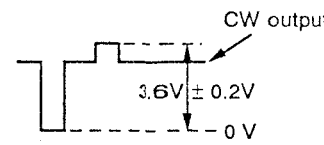
NOTE: If the picture tube is replaced,check the high voltage. The horiz. width adjustment affects the high voltage and sub brightness. Therefore, recheck the sub brightness and the high voltage.

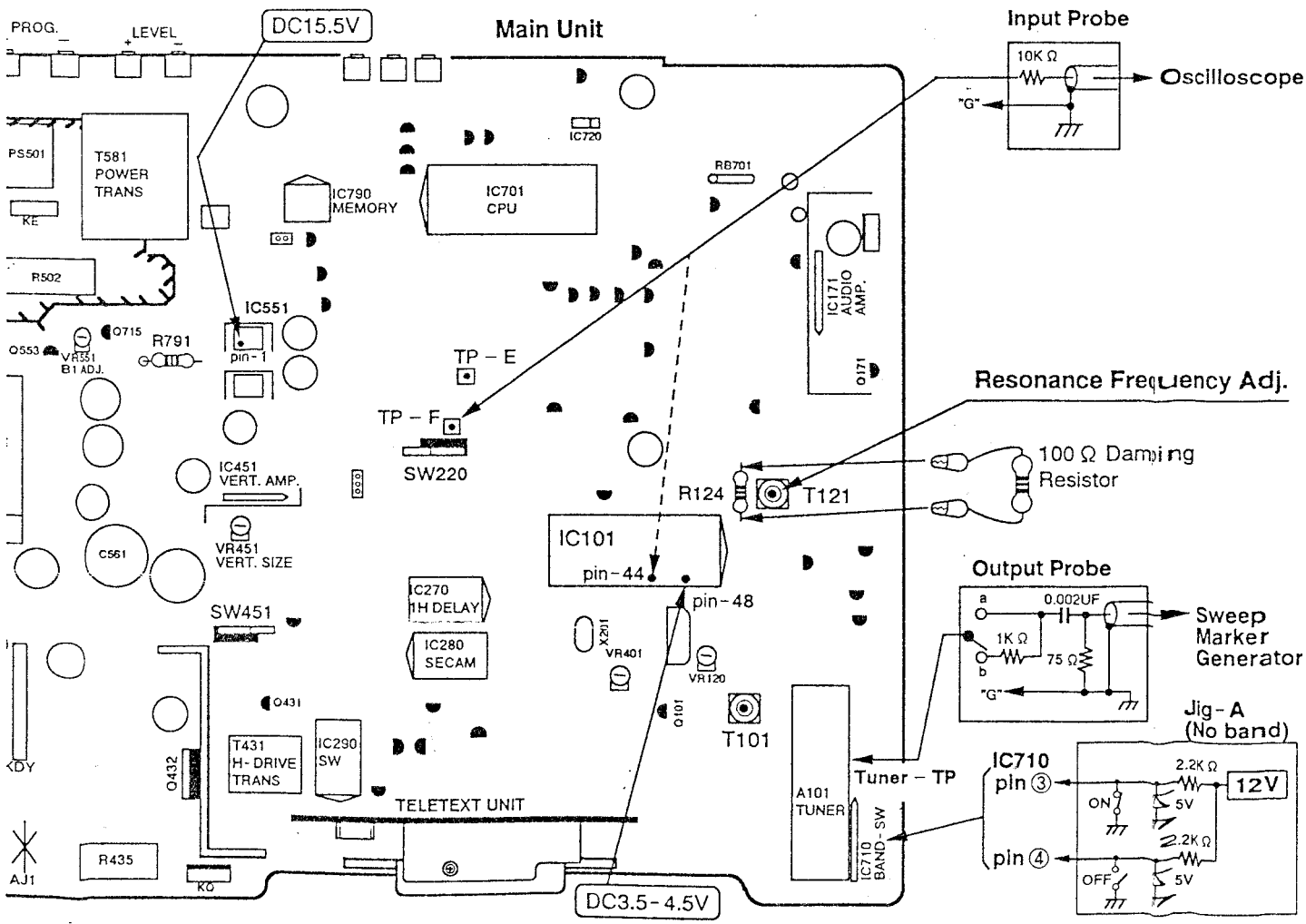
VIF Adjustment

Item		Detector Adj.	Overall Waveform(PAL)
Connection	DC 15.5V IF AGC(3.5-4.5V) Setting band Output Probe Input Probe	IC551-pin 1 IC101-pin48 No band (with Jig-A) Tuner-TP TP-F	IC551-pin 1 IC101-pin48 No band (with Jig-A) Tuner-TP TP-F
Condition	Sweep ATT. Output Probe Dumping Resistor Oscilloscope Sens.	40 dB(TTL) side b not used 100mV/DIV	40 dB(TTL) side b R124(100 Ω resister) 100mV/DIV
Adjustment		Adjust P (38.9MHz) to be maximum by using T121.	Using Tuner Converter Coil and T101, adjust the marker position to be P(38.9MHz)=50% ± 10% C(34.47MHz)=50% ± 10%
Waveform			



AFT Adjustment

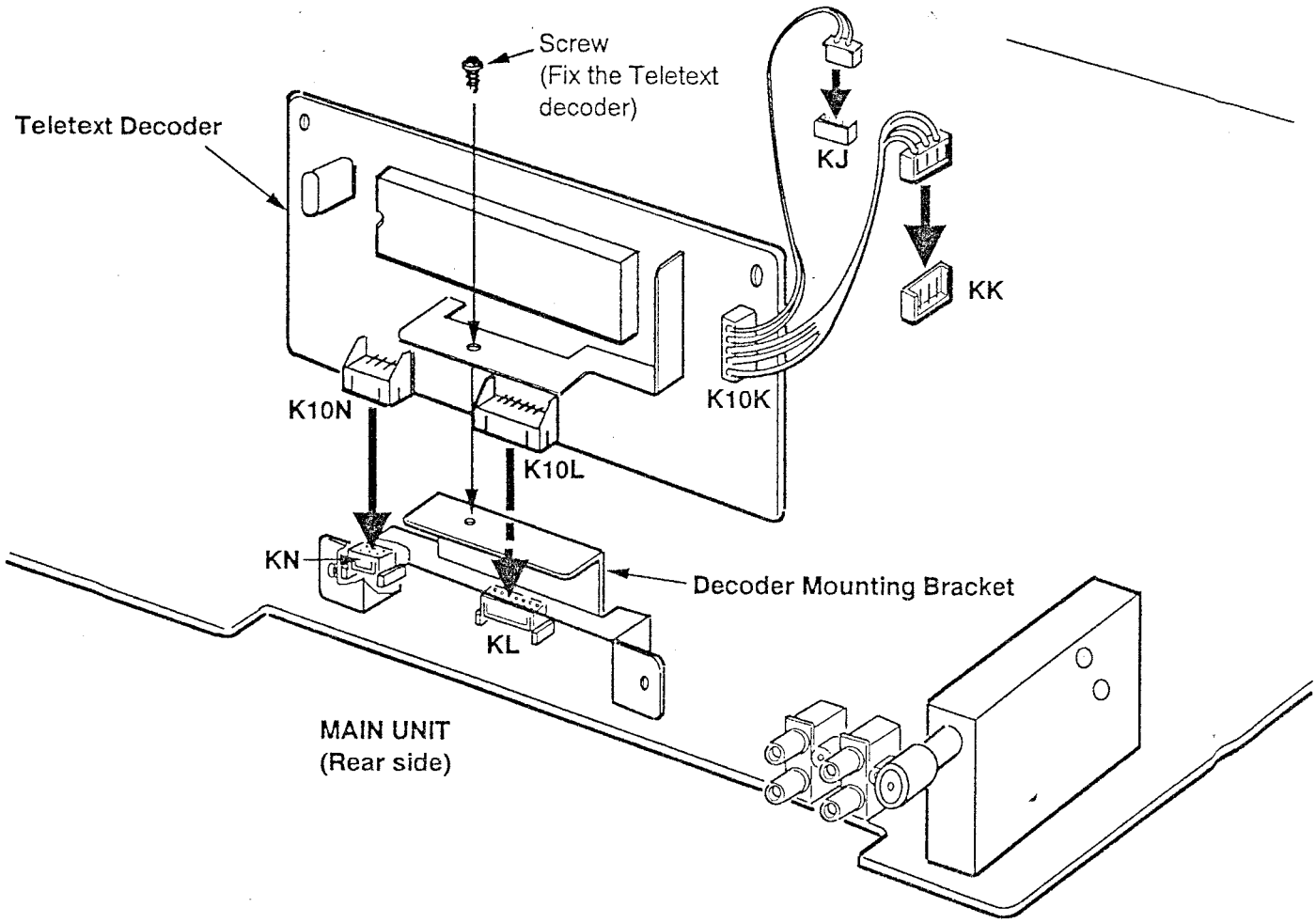
Item		AGC Voltage Alignment	Resonance Frequency Adj.(rough)	Resonance Frequency Adj.(fine)
Connection	DC 15.5V IF AGC(3.5-4.5V) Setting band Output Probe Input Probe	IC551-pin 1 IC101-pin48 No band (with Jig-A) TUNER-TP TP-F	IC551-pin 1 IC101-pin48 No band (with Jig-A) TUNER-TP IC101-pin44	IC551-pin 1 IC101-pin48 No band (with Jig-A) TUNER-TP IC101-pin44
Condition	Sweep ATT. Output Probe Dumping Resistor Oscilloscope Sens. SG Output	40 dB(TTL) side b R124 100mV/div None	40 dB(TTL) side b not used 1V/DIV ATT 35dB	40 dB(TTL) side b not used 1V/DIV ATT 35dB
Adjustment		Fix the AGC voltage when the overall waveform level is adjusted at 1.0 Vp-p.	Keep AGC voltage, and conform the marker position P is near by the Ref. line.	Keep AGC voltage. Set the VIF Adjustor Sweep off and pix. SG to CW output. Using T121, adjust DC voltage to be 3.6V ± 0.2V.
Waveform				



Mounting Instruction of the Optional Teletext Decoder

To mount the Teletext Decoder, proceed as follows;

(1) Take off the cabinet back of the TV set by removing the screws.
(2) Insert the Teletext Decoder to "KN" and "KL" on the Main unit.
(3) Connect the "K10K" lead of the Teletext Decoder to the "KK" and "KJ" terminal on the Main unit.
(4) Fix the Teletext Decoder to the Decoder Mounting Bracket by the fastening screw.



(5) Operate the TV set and check the Teletext operation.
(7) Reinstall the cabinet back.

PURITY AND CONVERGENCE ADJUSTMENT

CAUTION:The Convergence and Purity adjustments have been made at the factory. Readjustment should be made only after picture tube or deflection yoke replacement, following the steps below:

PURITY ADJUSTMENT

1. Demagnetize the picture tube and receiver using an external degaussing coil. When replacing picture tube or deflection yoke, mount deflection yoke and purity - convergence magnets assembly properly, see figures 1 and 4.
2. Turn Red and Blue guns off and provide only Green raster. Rotate Screen control to fully counterclockwise. Rotate Red and Blue Bias controls fully counterclockwise. Slowly rotate Green Bias control clockwise to produce Green raster.
3. Loosen the screw holding the Deflection Yoke and remove the 3 Rubber Wedges, and slide the Deflection Yoke fully frontward.
4. Rotate and spread the Tabs of the two Purity Magnets to center the vertical green belt in the picture screen. The Purity Magnets are also adjusted to obtain vertical centering of the raster.
5. Slowly slide the Deflection Yoke backward until a uniform green screen is obtained.
6. Check the purity of the red and blue screens for uniformity, turn off other colours to check this (use bias controls). Readjust the yoke position if necessary until all screens are pure.
7. Adjust each Bias control and screen control to obtain white raster. Refer to Gray Scale Adjustment. If part of the picture screen is coloured, adjust the Deflection Yoke position forward or backward slightly.
8. Tighten the mounting screw of the Deflection Yoke. Adjust Convergence next.

CENTER CONVERGENCE ADJUSTMENT

1. Use a dot crosshatch pattern signal.
2. Turn Red and Blue guns on and turn off Green gun. Adjust the angle between the Tabs of the Four Pole Magnet 1and 2,and superimpose the Red and Blue vertical lines in the center area of the picture screen. Refer to figure 2.
3. Keeping the mutual angle of the Tabs of the Four Pole Magnet turn them together to superimpose the Blue and Red horizontal lines in the center area of the picture screen. Refer to figure 2.
4. Turn Green gun on and adjust Six Pole Magnet 3 and 4 s that the Green line superimposed on the Red/Blue lines.

This is the same procedure used in steps 2 and 3.
Refer to figure 3.

OUTER AREA CONVERGENCE ADJUSTMENT

Slightly loosen the screw holding the Deflection Yoke. Adjust the Deflection Yoke to converge the detail in the outer area (left side and right side) of the picture screen by orbital movement of the front of the Yoke, then secure the Deflection Yoke in appropriate position by putting the wedges as illustrated. Tighten screw holding the Deflection Yoke.

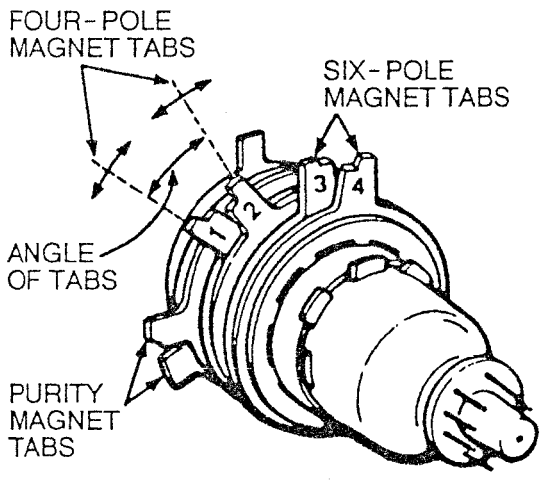


Figure-1. PURITY AND CONVERGENCE MAGNETS

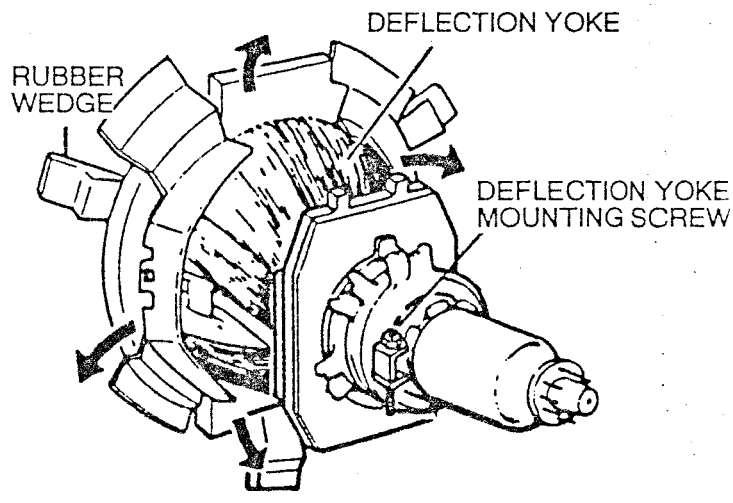


Figure-4. ADJUSTMENT DEFLECTION YOKE

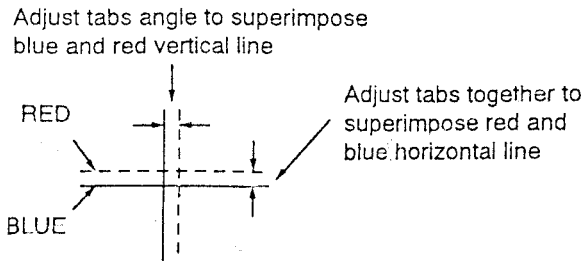

Adjust tabs angle to superimpose blue and red vertical line
RED
BLUE
Adjust tabs together to superimpose red and blue horizontal line

Figure-2 BLUE AND RED LINE MOVEMENT

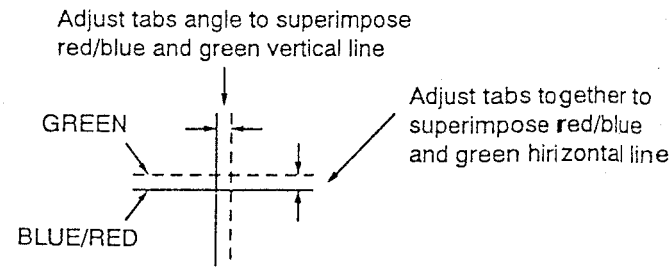
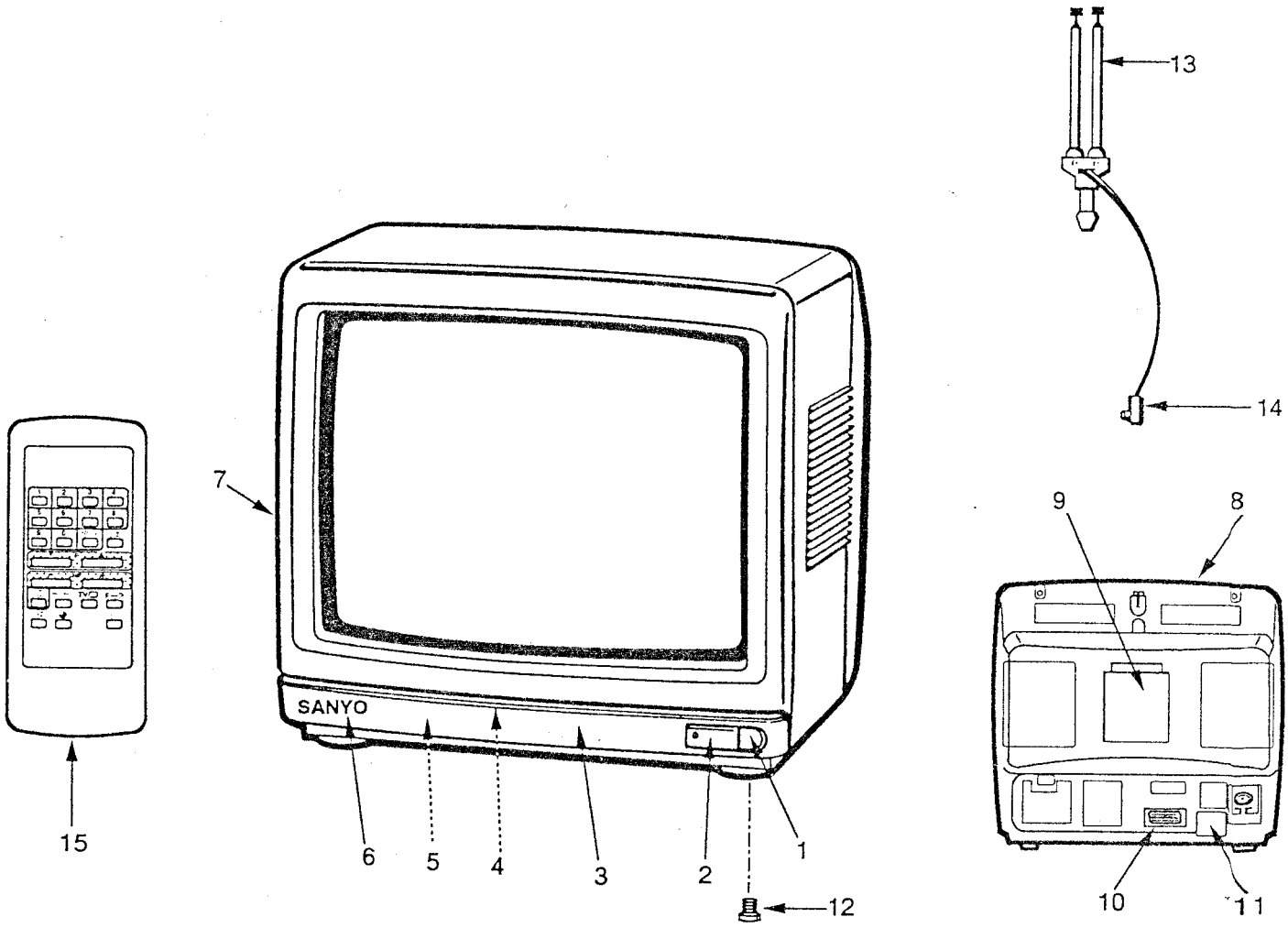

Adjust tabs angle to superimpose red/blue and green vertical line
GREEN
BLUE/RED
Adjust tabs together to superimpose red/blue and green hirizontal line

Figure-3 BLUE/RED AND GREEN LINE MOVEMENT

CABINET PARTS LIST (Model : C14EA13EE)

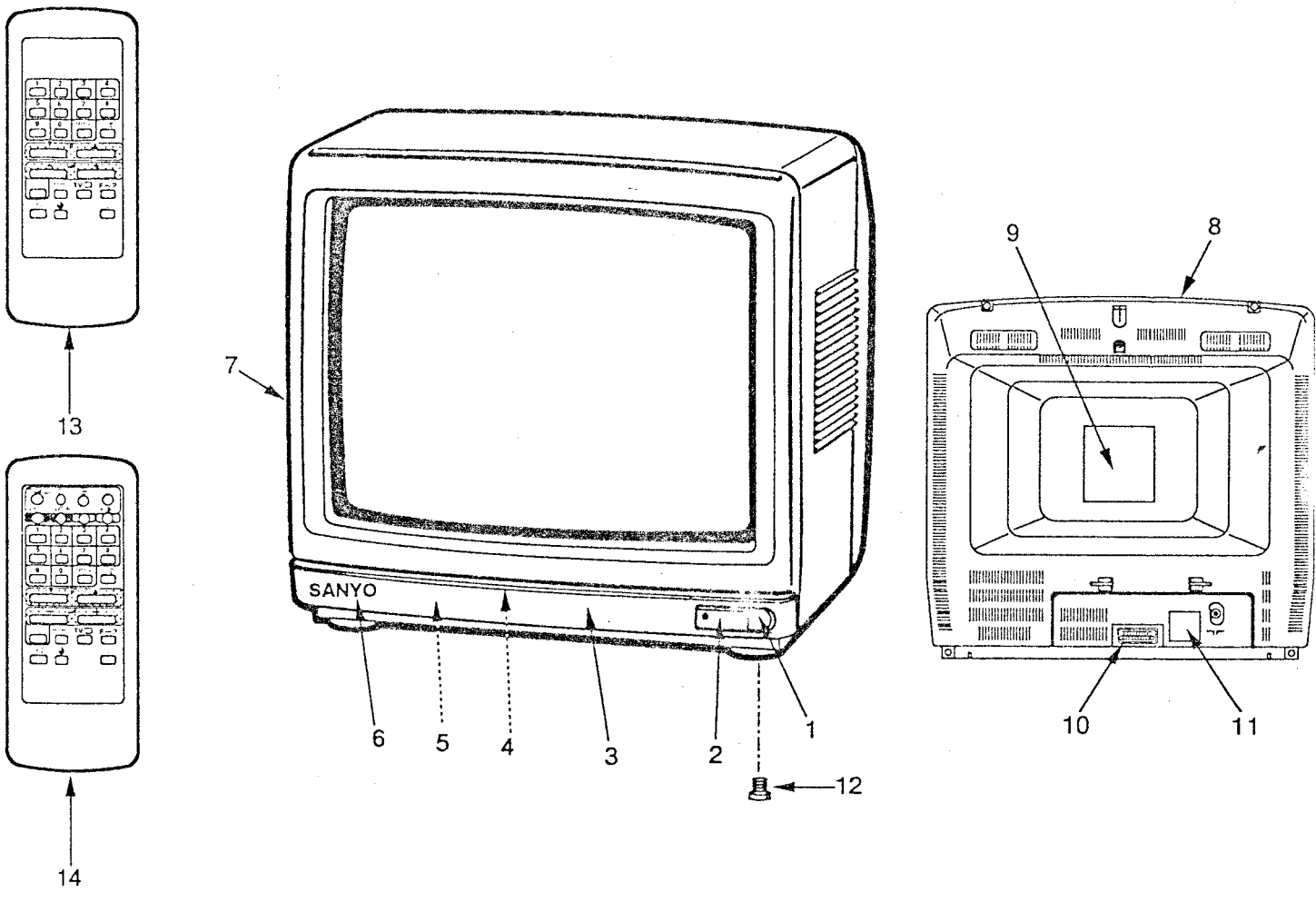
Note : Parts order must contain Service Ref. No.,Key No.,Parts No., and Description.



Key No.	Part No.	Description	Key No.	Part No.	Description
1.	610 237 8542	POWER BUTTON	12.	610 098 2659	FOOT (2 used)
	610 210 7302	SPRING	or	610 238 4031	FOOT (2 used)
or	610 229 8406	SPRING	13.	610 011 6405	ROD ANTENNA ASSY
2.	610 239 4818	TRANSPARENT BOARD	14.	610 011 5736	ANT MATCHING BOX
3.	610 248 6285	DOOR	or	610 211 9299	ANT MATCHING BOX
4.	610 105 3174	PUSH RUCH	15.	645 002 0636	ASSY, REMOCON JXRA
5.	610 248 7855	DEC SHEET			
6.	610 104 6442	SANYO BADGE		610 248 5936	INSTRUCTIONS MANUAL
7.	610 238 3225	ASSY. CABINET			
8.	610 237 0959	CABINET BACK			
9.	610 248 8760	LABEL RATING			
10.	610 248 6049	DEC REAR SHEET (21PIN)			
11.	610 227 6787	COVER (AV)			

CABINET PARTS LIST (Model : C20EE13EE/C20EE13EX/C20EE16EE)

Note : Parts order must contain Service Ref. No.,Key No.,Parts No., and Description.



Key No.	Part No.	Description
1.	610 237 8542	BUTTON
	610 229 8406	SPRING
2.	610 248 8135	DEC BOARD
3.	610 248 6551	DOOR(C20EE13EE/C20EE13EX)
	610 249 1005	DOOR(C20EE16EE)
4.	610 104 2505	PUSH LATCH
5.	610 248 5998	DEC SHEET
6.	610 104 6336	SANYO BADGE
7.	610 248 8098	ASSY. CABINET
8.	610 247 9027	CABINET BACK
9.	610 248 6230	LABEL RATING(C20EE13EE)
	610 249 7922	LABEL RATING(C20EE13EX)
	610 249 0992	LABEL RATING(C20EE16EE)

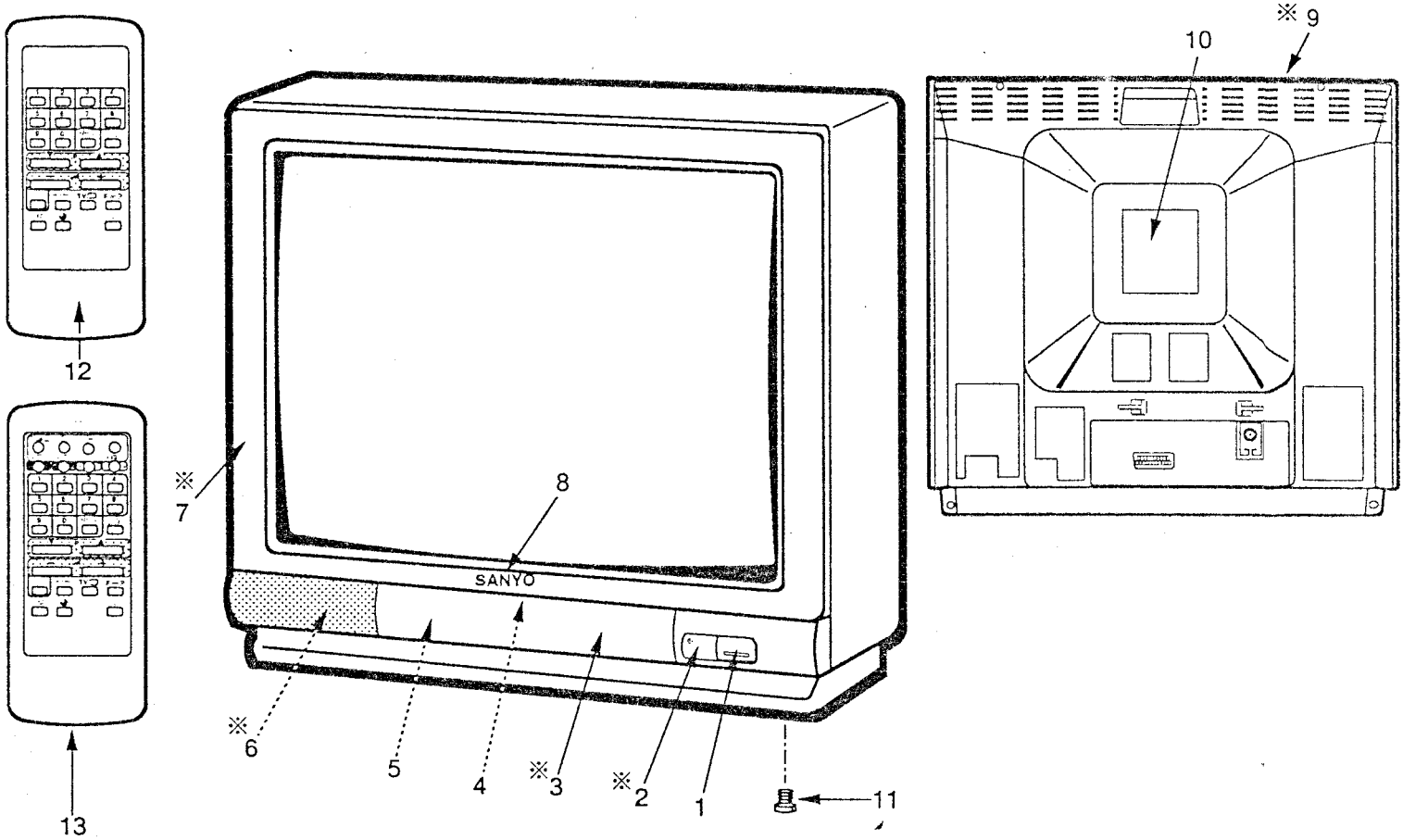
Key No.	Part No.	Description
10.	610 227 6794	COVER(21PIN)
11.	610 227 6787	COVER(AV)
12.	610 098 2659	FOOT(4 used)
13.	645 002 0636	REMOCON JXRA(C20EE13EE)
14.	645 002 9349	REMOCON JXRB(C20EE13EX/C20EE16EE)
	610 248 5936	INSTRUCTIONS MANUAL

CABINET PARTS LIST (Model : C21EF13EE/C21EF13EX/C21EF16EE)

Note : Parts order must contain Service Ref. No.,Key No.,Parts No., and Description.

Important Note: Please order the Cabinet Parts marked ※ from SANYO Industries (U.K.) Limited.

SANYO Industries (U.K.) Limited: Oulton Works, School Road, Lowestoft, Suffolk, NR33 9NA, United Kingdom
(TEL: 44-502-587366 FAX: 44-502-513005)



Key No.	Part No.	Description	Key No.	Part No.	Description
※1.	610 229 2589	BUTTON	10.	610 249 1777	LABEL RATING(C21EF13EE)
	610 210 7302	SPRING		610 249 7939	LABEL TAYING(C21EF13EX)
or	610 229 8406	SPRING		610 249 1784	LABEL RATING(C21EF16EE)
※2.	610 229 2602	TRANSPARENT BOARD	11.	610 098 2659	FOOT(4 used)
※3.	610 231 5066	DOOR(C21EF13EE/C21EF13EX)	12.	645 002 0636	REMOCON JXRA(C21EF13EE)
or	610 239 2173	DOOR(C21EF16EE)	13.	645 002 9349	REMOCON JXRB(C21EF13EX/C21EF16EE)
4.	610 104 2505	PUSH LATCH			
5.	610 248 8685	DEC SHEET		610 248 5936	INSTRUCTIONS MANUAL
※6.	610 229 2633	SPEAKER GRILLE			
※7.	610 249 4440	ASSY, CABINET			
8.	610 104 6442	SANYO BADGE			
※9.	610 248 8678	CABINET BACK			

CHASSIS ELECTRICAL PARTS LIST Model : C14EA13EE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No.,Part No.,and descriptions. The main PCB unit will be supplied without tuner and flyback transformer. They should be ordered separately.

Read description in the Capacitor and Resister as follows:

CAPACITOR

CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10PF

A: Not specified	B: ± 0.1PF	C: ± 0.25PF
D: ± 0.5PF	F: ± 1PF	G: ± 2PF
R: +0.25-0PF	S: +0-0.25PF	E: +0-1PF

More than 10PF

A: Not specified	B: ± 0.1%	C: ± 0.25%
D: ± 0.5%	F: ± 1%	G: ± 2%
H: ± 3%	J : ± 5%	K: ± 10%
L : ± 15%	M: ± 20%	N: ± 30%
P: +100-0%	Q: +30-10%	T: +50-10%
U: +75-10%	V: +20-10%	W: +100-10%
X: +40-20%	Y: +150-10%	Z: +80-20%

- 100P — Rated value:P=pico farad,U=Micro farad
- CERAMIC — Material :

CERAMIC.....Ceramic
MT-PAPER.....Metallized Paper
POLYESTER.....Polyester
MT-POLYEST.....Metallized Polyester
POLYPRO.....Polypropylene
MT-POLYPRO.....Metallized Polypropylene
COMPO FILM.....Composite film
MT-COMPO.....Metallized Cmposite
STYRENE.....Styrene
TA-SOLID.....Tantalum Solid
AL-SOLID.....Aluminium Solid
ELECT.....Electrolytic
NP-ELECT.....Non-polarized Electrolytic
OS-SOLID.....Aluminium Solid with Organic Semiconductive Electrolytic
DL-ELECT.....Double Layered Electrolytic

RESISTER

CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A:General B:Non flammable Z:Low noise
  Other :Temperature coefficient
- J — Tolerance Symbols:
  A: ± 0.05% B: ± 0.1% C: ± 0.25% D: ± 0.5%
  F: ± 1% G: ± 2% J: ± 5% K: ± 10%
  M: ± 20% P:+5-15%
- 4.7K — Rated value, ohms:
  K:1,000, M:1,000,000
- CARBON — Material :

CARBON .....Carbon
MT-FILM.....Metal Film
OXIDE-MT .....Oxide Metal Film
SOLID .....Composition
MT-GLAZE .....Metal Glaze
WIRE WOUND .....Wire Wound
CERAMIC RES.....Ceramic
FUSIBLE RES .....Fusible

Ref. No.	Part No.	Description
610 248 5097 MAIN PCB ASSY E6SZP UE2778		
TRANSISTER		
Q101	405 013 3305	TR 2SC2216(SAN)
Q111	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q113	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q122	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q124	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q154	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R

Ref. No.	Part No.	Description
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q156	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q171	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q172	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q202	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q203	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q291	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q292	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q431	405 014 2406	TR 2SC2383-O (SAN)
	405 014 2505	TR 2SC2383-R (SAN)
Q432	405 022 6601	TR 2SD1649-CTV-YB
Q511	406 000 6804	TR 2SA1015-GR (SAN)
	405 001 7407	TR 2SA1015-O (SAN)
	405 001 7605	TR 2SA1015-Y (SAN)
	405 004 3109	TR 2SA564A-O (CU)
	405 004 3208	TR 2SA564A-R (CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q512	405 058 0208	TR 2SC3807-R-CTV-YA
Q513	405 022 8506	TR 2SD1710-CTV-YB
Q551	405 008 4805	TR 2SB764-E
Q552	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R

Ref. No.	Part No.	Description
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q553	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q554	405 008 4805	TR 2SB764-E
Q701	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q702	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q703	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA

Ref. No.	Part No.	Description
	405 020 7907	TR 2SC945A-RA
Q704	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q705	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q706	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q707	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q708	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA

Ref. No.	Part No.	Description
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q709	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q711	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q713	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-O(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q714	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q715	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP

Ref. No.	Part No.	Description
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q716	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q718	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-O(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q721	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q722	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q723	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP

Ref. No.	Part No.	Description
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q781	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q801	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q852	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q853	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q855	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q856	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q857	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q858	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q891	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
INTEGRATED CIRCUIT		
IC101	409 307 2500	IC TDA8362/N3
IC171	409 073 1509	IC AN5265
IC270	409 291 0605	IC TDA4661/V2
IC280	409 299 4902	IC TDA8395/N1
IC290	409 051 3006	IC TC4053BP
IC451	409 183 5008	IC LA7832
IC551	409 143 3402	IC AN78M12-LB

Ref. No.	Part No.	Description
	409 026 9507	IC L78M12-RA
IC552	409 285 5203	IC L78M08-RA
IC701	410 173 1900	IC M37211M2-522SP
IC710	409 019 6209	IC LA7910
IC720	409 243 4200	IC MN1380-R
IC790	409 247 7702	IC ST24C02AB1
	409 257 7204	IC X24C02P
	409 281 8307	IC 24C02A/P
CAPACITOR		
C101	403 125 5606	ELECT 100U M 16V
C102	403 061 9607	POLYESTER 0.047U J 50V
	403 062 0207	POLYESTER 0.047U J 50V
C103	403 121 3507	ELECT 4.7U M 50V
C104	403 121 2401	ELECT 22U M 16V
C105	403 067 5603	MT-COMPO 0.1U J 50V
C106	403 109 6407	ELECT 10U M 50V
C108	403 011 3808	CERAMIC 120P J 50V
C109	403 033 3602	CERAMIC 82P J 50V
C110	403 026 1103	CERAMIC 47P J 50V
C113	403 069 8305	CERAMIC 0.01U Z 50V
C114	403 069 8305	CERAMIC 0.01U Z 50V
C115	403 069 8305	CERAMIC 0.01U Z 50V
C117	403 134 9602	ELECT 47U M 16V
C119	403 010 5704	CERAMIC 12P J 50V
C121	403 067 7805	MT-COMPO 0.47U J 50V
C122	403 067 5603	MT-COMPO 0.1U J 50V
C123	403 109 6407	ELECT 10U M 50V
C126	403 061 2202	POLYESTER 3900P K 50V
	403 061 2707	POLYESTER 3900P K 50V
C128	403 121 3408	ELECT 2.2U M 50V
C129	403 028 1606	CERAMIC 56P J 50V
C130	403 069 8305	CERAMIC 0.01U Z 50V
C131	403 121 3507	ELECT 4.7U M 50V
C132	403 067 5603	MT-COMPO 0.1U J 50V
C134	403 069 0507	CERAMIC 1000P K 50V
C135	403 067 5603	MT-COMPO 0.1U J 50V
C136	403 134 5802	ELECT 470U M 16V
C137	403 067 5603	MT-COMPO 0.1U J 50V
C138	403 121 3408	ELECT 2.2U M 50V
C142	403 069 8305	CERAMIC 0.01U Z 50V
C143	403 028 2009	CERAMIC 56P J 50V
C144	403 067 5603	MT-COMPO 0.1U J 50V
C145	403 067 5603	MT-COMPO 0.1U J 50V
C152	403 013 1901	CERAMIC 150P J 50V
C154	403 013 1901	CERAMIC 150P J 50V
C162	403 069 8305	CERAMIC 0.01U Z 50V
C164	403 069 8305	CERAMIC 0.01U Z 50V
C172	403 067 7805	MT-COMPO 0.47U J 50V
C173	403 059 3600	POLYESTER 2200P K 50V
	403 059 4201	POLYESTER 2200P K 50V
C174	403 134 5901	ELECT 33U M 16V
C178	403 121 2401	ELECT 22U M 16V
C180	403 067 5603	MT-COMPO 0.1U J 50V
C181	403 045 1801	ELECT 1000U M 25V
C182	403 107 9905	ELECT 10U M 16V
C183	403 107 9905	ELECT 10U M 16V
C184	403 067 6709	MT-COMPO 0.22U J 50V
C185	403 111 8604	ELECT 470U M 25V
C186	403 069 8305	CERAMIC 0.01U Z 50V
C187	403 067 6709	MT-COMPO 0.22U J 50V
C188	403 121 3507	ELECT 4.7U M 50V
C192	403 134 6007	ELECT 330U M 16V
C200	403 014 0200	CERAMIC 18P J 50V
C202	403 067 5603	MT-COMPO 0.1U J 50V
C203	403 061 8105	POLYESTER 4700P K 50V
	403 061 8808	POLYESTER 4700P K 50V
C204	403 067 5603	MT-COMPO 0.1U J 50V
C205	403 067 5603	MT-COMPO 0.1U J 50V
C208	403 067 5603	MT-COMPO 0.1U J 50V

Ref. No.	Part No.	Description
C209	403 067 5603	MT-COMPO 0.1U J 50V
C210	403 067 5603	MT-COMPO 0.1U J 50V
C215	403 067 7805	MT-COMPO 0.47U J 50V
C216	403 067 5603	MT-COMPO 0.1U J 50V
C217	403 121 3507	ELECT 4.7U M 50V
C221	403 067 5603	MT-COMPO 0.1U J 50V
C231	403 157 8903	NP-ELECT 1U M 100V
C232	403 138 1602	ELECT 1U M 100V
C270	403 059 5901	POLYESTER 0.022U K 50V
	403 059 6700	POLYESTER 0.022U K 50V
C271	403 069 0507	CERAMIC 1000P K 50V
C272	403 069 0507	CERAMIC 1000P K 50V
C275	403 107 9905	ELECT 10U M 16V
C280	403 067 6709	MT-COMPO 0.22U J 50V
C281	403 067 5603	MT-COMPO 0.1U J 50V
C282	403 134 9602	ELECT 47U M 16V
C283	403 059 5901	POLYESTER 0.022U K 50V
	403 059 6700	POLYESTER 0.022U K 50V
C285	403 033 3602	CERAMIC 82P J 50V
C286	403 026 1103	CERAMIC 47P J 50V
C287	403 069 8305	CERAMIC 0.01U Z 50V
C288	403 030 5401	CERAMIC 68P J 50V
C291	403 069 8305	CERAMIC 0.01U Z 50V
C401	403 067 5603	MT-COMPO 0.1U J 50V
C402	403 062 0306	POLYESTER 0.047U K 50V
	403 062 1006	POLYESTER 0.047U K 50V
C403	403 061 8105	POLYESTER 4700P K 50V
	403 061 8808	POLYESTER 4700P K 50V
C404	403 086 2300	NP-ELECT 1U M 50V
C405	403 060 0506	POLYESTER 2700P K 50V
	403 060 1107	POLYESTER 2700P K 50V
C406	403 059 5901	POLYESTER 0.022U K 50V
	403 059 6700	POLYESTER 0.022U K 50V
C407	403 125 5606	ELECT 100U M 16V
C431	403 062 6902	POLYESTER 0.056U K 50V
	403 062 7404	POLYESTER 0.056U K 50V
C432	403 075 7101	CERAMIC 1000P K 500V
C433	403 076 3102	CERAMIC 3900P K 500V
C434	403 135 9403	ELECT 47U M 35V
C435	404 030 3909	MT-POLYPRO 5600P J 1.5K
	404 030 4005	MT-POLYPRO 5600P J 1.5K
C436	403 165 7509	CERAMIC 270P K 3K
	403 078 3407	CERAMIC 270P K 3K
C437	403 067 7805	MT-COMPO 0.47U J 50V
C441	403 082 7408	POLYPRO 0.15U J 200V
C442	403 082 7408	POLYPRO 0.15U J 200V
C443	403 134 1903	ELECT 4.7U M 160V
C444	403 165 7202	CERAMIC 390P K 3K
	403 078 4701	CERAMIC 390P K 3K
C445	403 076 1405	CERAMIC 2700P K 500V
C451	403 119 8002	ELECT 470U M 25V
C452	403 148 1807	ELECT 220U M 35V
C453	403 036 0905	CERAMIC 39P K 500V
C454	403 056 9506	POLYESTER 0.01U J 50V
C455	403 274 9203	POLYESTER 820P J 100V
C456	403 109 6407	ELECT 10U M 50V
C461	403 045 1801	ELECT 1000U M 25V
C463	403 188 0907	MT-POLYEST 0.22U K 100V
C485	403 109 5707	ELECT 220U M 25V
C501	404 047 3503	MT-POLYEST 0.1U M 125V
	404 047 3602	MT-POLYEST 0.1U M 125V
	404 007 9903	MT-COMPO 0.1U M 250V
	404 044 0901	MT-COMPO 0.1U M 250V
C502	404 047 3503	MT-POLYEST 0.1U M 125V
	404 047 3602	MT-POLYEST 0.1U M 125V
	404 007 9903	MT-COMPO 0.1U M 250V
	404 044 0901	MT-COMPO 0.1U M 250V
C503	403 076 7100	CERAMIC 1000P M 1K
C504	403 076 7100	CERAMIC 1000P M 1K
C505	403 076 7100	CERAMIC 1000P M 1K

Ref. No.	Part No.	Description
C506	403 076 7100	CERAMIC 1000P M 1K
C507	404 047 1806	ELECT 100U M 400V
C513	403 061 8105	POLYESTER 4700P K 50V
	403 061 8808	POLYESTER 4700P K 50V
C514	403 067 5603	MT-COMPO 0.1U J 50V
C515	403 058 2406	POLYESTER 0.015U J 50V
	403 058 3007	POLYESTER 0.015U J 50V
C516	403 165 8407	CERAMIC 680P K 2K
	403 077 9103	CERAMIC 680P K 2K
C517	403 058 3205	POLYESTER 0.015U K 50V
	403 058 3809	POLYESTER 0.015U K 50V
C518	403 076 7100	CERAMIC 1000P M 1K
C533	404 008 2606	CERAMIC 1000P M 400V
	404 008 4303	CERAMIC 1000P M 400V
	404 047 8102	CERAMIC 1000P M 400V
C534	404 008 2606	CERAMIC 1000P M 400V
	404 008 4303	CERAMIC 1000P M 400V
	404 047 8102	CERAMIC 1000P M 400V
C551	403 165 8605	CERAMIC 470P K 2K
	403 077 7802	CERAMIC 470P K 2K
C553	403 165 6106	CERAMIC 470P K 1K
	403 077 0407	CERAMIC 470P K 1K
C554	403 165 6106	CERAMIC 470P K 1K
	403 077 0407	CERAMIC 470P K 1K
C555	403 165 6106	CERAMIC 470P K 1K
	403 077 0407	CERAMIC 470P K 1K
C561	404 042 4703	ELECT 220U M 160V
C562	403 055 1006	ELECT 10U M 160V
C563	403 108 0208	ELECT 330U M 35V
C564	403 148 0404	ELECT 1000U M 25V
C565	403 148 0404	ELECT 1000U M 25V
C571	403 148 0305	ELECT 470U M 16V
C572	403 148 0305	ELECT 470U M 16V
C583	403 038 3409	ELECT 1000U M 6.3V
C701	403 056 7106	POLYESTER 1000P J 50V
C702	403 020 4803	CERAMIC 270P J 50V
C703	403 009 3100	CERAMIC 100P J 50V
C704	403 068 9006	CERAMIC 100P K 50V
C705	403 068 9006	CERAMIC 100P K 50V
C706	403 068 9006	CERAMIC 100P K 50V
C707	403 068 9006	CERAMIC 100P K 50V
C708	403 068 9006	CERAMIC 100P K 50V
C709	403 109 6308	ELECT 1U M 50V
C711	403 121 3507	ELECT 4.7U M 50V
C712	403 121 3507	ELECT 4.7U M 50V
C713	403 109 6407	ELECT 10U M 50V
C714	403 109 6407	ELECT 10U M 50V
C715	403 121 3507	ELECT 4.7U M 50V
C716	403 121 3507	ELECT 4.7U M 50V
C717	403 071 1707	CERAMIC 180P K 50V
C718	403 069 8305	CERAMIC 0.01U Z 50V
C719	403 073 3907	CERAMIC 3900P K 50V
C721	403 067 5603	MT-COMPO 0.1U J 50V
C722	403 134 9602	ELECT 47U M 16V
C723	403 026 0700	CERAMIC 47P J 50V
C724	403 026 0700	CERAMIC 47P J 50V
C725	403 069 8305	CERAMIC 0.01U Z 50V
C726	403 072 7708	CERAMIC 330P K 50V
C728	403 069 8305	CERAMIC 0.01U Z 50V
C729	403 107 9905	ELECT 10U M 16V
C731	403 067 5603	MT-COMPO 0.1U J 50V
C732	403 067 5603	MT-COMPO 0.1U J 50V
C741	403 067 5603	MT-COMPO 0.1U J 50V
C743	403 072 8200	CERAMIC 330P K 50V
C744	403 072 8200	CERAMIC 330P K 50V
C745	403 072 8200	CERAMIC 330P K 50V
C746	403 057 0403	POLYESTER 0.01U K 50V
	403 057 1004	POLYESTER 0.01U K 50V
C854	403 107 9905	ELECT 10U M 16V
C857	403 134 5901	ELECT 33U M 16V
C873	403 107 9905	ELECT 10U M 16V
C874	403 109 6308	ELECT 1U M 50V
RESISTER		
RB701	610 037 3273	RESISTOR BLOCK
RB703	645 003 0376	C-NETWORK
R101	401 025 7805	CARBON 2.2K JA 1/6W
R103	401 024 6700	CARBON 100 JA 1/6W
R104	401 027 2600	CARBON 5.6K JA 1/6W
R105	401 024 7004	CARBON 1K JA 1/6W
R106	401 025 7409	CARBON 220 JA 1/6W
R107	401 026 0409	CARBON 27 JA 1/6W
R111	401 027 5205	CARBON 680 JA 1/6W
R116	401 027 8305	CARBON 820 JA 1/6W
R121	401 027 0309	CARBON 47K JA 1/6W
R124	401 027 5502	CARBON 6.8K JA 1/6W
R125	401 025 3807	CARBON 180 JA 1/6W
R126	401 027 2600	CARBON 5.6K JA 1/6W
R127	401 024 6700	CARBON 100 JA 1/6W
R128	401 027 2600	CARBON 5.6K JA 1/6W
R129	401 024 7400	CARBON 10K JA 1/6W
R131	401 026 9907	CARBON 4.7K JA 1/6W
R132	401 026 7408	CARBON 39K JA 1/6W
R133	401 024 9305	CARBON 1.2K JA 1/6W
R134	401 024 7004	CARBON 1K JA 1/6W
R137	401 016 2604	CARBON 220 JA 1/4W
R139	401 024 6700	CARBON 100 JA 1/6W
R150	401 024 7004	CARBON 1K JA 1/6W
R161	401 024 9701	CARBON 12K JA 1/6W
R163	401 027 5205	CARBON 680 JA 1/6W
R166	401 027 0309	CARBON 47K JA 1/6W
R169	401 027 9005	CARBON 82K JA 1/6W
R170	401 025 1902	CARBON 15K JA 1/6W
R171	401 024 7400	CARBON 10K JA 1/6W
R172	401 027 2303	CARBON 560 JA 1/6W
R173	401 025 1902	CARBON 15K JA 1/6W
R177	401 025 8208	CARBON 22K JA 1/6W
R178	401 024 7400	CARBON 10K JA 1/6W
R183	401 024 9305	CARBON 1.2K JA 1/6W
R184	401 026 4605	CARBON 33K JA 1/6W
R185	401 017 6205	CARBON 3.3 JA 1/4W
R190	401 026 6609	CARBON 390 JA 1/6W
R191	401 024 9701	CARBON 12K JA 1/6W
R192	401 026 9303	CARBON 47 JA 1/6W
R193	401 027 5205	CARBON 680 JA 1/6W
R198	401 026 9303	CARBON 47 JA 1/6W
R202	401 024 7707	CARBON 100K JA 1/6W
R203	401 024 6700	CARBON 100 JA 1/6W
R204	401 024 6700	CARBON 100 JA 1/6W
R205	401 024 6700	CARBON 100 JA 1/6W
R206	401 024 6700	CARBON 100 JA 1/6W
R207	401 024 6700	CARBON 100 JA 1/6W
R208	401 024 6700	CARBON 100 JA 1/6W
R213	401 024 7400	CARBON 10K JA 1/6W
R214	401 024 7400	CARBON 10K JA 1/6W
R215	401 025 4200	CARBON 1.8K JA 1/6W
R219	401 019 1000	CARBON 390 JA 1/4W
R223	401 027 0309	CARBON 47K JA 1/6W
R225	401 024 7400	CARBON 10K JA 1/6W
R226	401 026 9907	CARBON 4.7K JA 1/6W
R227	401 025 8703	CARBON 220K JA 1/6W
R231	401 017 3808	CARBON 270K JA 1/4W
R232	401 024 7004	CARBON 1K JA 1/6W
R233	401 000 7509	SOLID 1.5K KA 1/2W
R235	401 026 7408	CARBON 39K JA 1/6W
R275	401 025 7409	CARBON 220 JA 1/6W
R282	401 026 1000	CARBON 2.7K JA 1/6W
R283	401 026 7002	CARBON 3.9K JA 1/6W
R291	401 025 7409	CARBON 220 JA 1/6W
R292	401 025 7409	CARBON 220 JA 1/6W

Ref. No.	Part No.	Description		
R293	401 024 7400	CARBON	10K JA	1/6W
R294	401 025 1605	CARBON	1.5K JA	1/6W
R308	401 025 8703	CARBON	220K JA	1/6W
R401	401 024 6700	CARBON	100 JA	1/6W
R402	401 024 8001	CARBON	1M JA	1/6W
R403	401 024 6700	CARBON	100 JA	1/6W
R404	401 025 8208	CARBON	22K JA	1/6W
R405	401 024 6700	CARBON	100 JA	1/6W
R406	401 026 7606	CARBON	390K JA	1/6W
R407	401 025 8208	CARBON	22K JA	1/6W
R408	401 024 6700	CARBON	100 JA	1/6W
R409	401 026 9907	CARBON	4.7K JA	1/6W
R410	401 025 8208	CARBON	22K JA	1/6W
R432	401 024 7004	CARBON	1K JA	1/6W
R433	401 007 1104	CARBON	1K JA	1/2W
R434	401 009 0907	CARBON	270 JA	1/2W
R435	402 055 4208	WIRE WOUND	10 KA	6W
	402 055 4307	WIRE WOUND	10 KA	6W
R436	401 014 5201	CARBON	15K JA	1/4W
R442	401 058 5007	OXIDE-MT	10K JA	1W
R443	401 025 8703	CARBON	220K JA	1/6W
R444	401 058 3706	OXIDE-MT	1K JA	1W
R451	401 026 4605	CARBON	33K JA	1/6W
R452	401 024 9701	CARBON	12K JA	1/6W
R453	401 027 5502	CARBON	6.8K JA	1/6W
R454	401 024 6700	CARBON	100 JA	1/6W
R455	401 026 9907	CARBON	4.7K JA	1/6W
R456	401 026 9907	CARBON	4.7K JA	1/6W
R457	401 026 9907	CARBON	4.7K JA	1/6W
R459	401 006 7602	CARBON	1 JA	1/2W
R460	401 008 0908	CARBON	180 JA	1/2W
R467	401 014 4105	CARBON	1.5K JA	1/4W
R485	401 060 1707	OXIDE-MT	22 JA	1W
R486	401 024 7400	CARBON	10K JA	1/6W
R502	402 057 8105	WIRE WOUND	3.9 KA	6W
	402 057 8204	WIRE WOUND	3.9 KA	6W
R511	401 027 2600	CARBON	5.6K JA	1/6W
R515	401 025 8208	CARBON	22K JA	1/6W
R517	401 024 9305	CARBON	1.2K JA	1/6W
R519	401 016 1508	CARBON	22 JA	1/4W
R520	401 000 5901	SOLID	120K KA	1/2W
R521	401 000 5901	SOLID	120K KA	1/2W
R522	401 014 5201	CARBON	15K JA	1/4W
R523	401 026 4308	CARBON	3.3K JA	1/6W
R524	401 069 6208	OXIDE-MT	82 JA	2W
R525	401 069 1708	OXIDE-MT	68 JA	2W
R526	401 017 1507	CARBON	2.7K GA	1/4W
⚠R531	402 000 8305	SOLID	5.6M KA	1/2W
⚠R532	402 000 8305	SOLID	5.6M KA	1/2W
R551	401 066 2104	OXIDE-MT	18K JA	2W
R552	401 012 8105	CARBON	100K JA	1/4W
R553	401 020 2003	CARBON	4.7K JA	1/4W
R554	401 014 6109	CARBON	150K JA	1/4W
R555	401 010 4307	CARBON	47K JA	1/2W
R556	401 025 8208	CARBON	22K JA	1/6W
R557	401 058 1108	OXIDE-MT	10 JA	1W
R559	401 062 8803	OXIDE-MT	6.8 JA	1W
R560	401 009 6602	CARBON	3.3K JA	1/2W
R561	401 069 0404	OXIDE-MT	6.8 JA	2W
R562	401 065 9609	OXIDE-MT	18 JA	2W
R564	401 024 7400	CARBON	10K JA	1/6W
R565	401 019 1901	CARBON	3.9K JA	1/4W
R566	401 024 7400	CARBON	10K JA	1/6W
R567	401 013 5301	CARBON	1.2K JA	1/4W
R568	401 063 5306	OXIDE-MT	82 JA	1W
R569	401 024 7004	CARBON	1K JA	1/6W
R581	401 066 0506	OXIDE-MT	180 JA	2W
R585	401 027 2600	CARBON	5.6K JA	1/6W
R592	401 016 5803	CARBON	220K JA	1/4W
R593	401 024 7400	CARBON	10K JA	1/6W

Ref. No.	Part No.	Description		
R701	401 024 7400	CARBON	10K JA	1/6W
R702	401 024 7400	CARBON	10K JA	1/6W
R703	401 027 0309	CARBON	47K JA	1/6W
R704	401 027 5908	CARBON	68K JA	1/6W
R705	401 026 9907	CARBON	4.7K JA	1/6W
R706	401 024 7400	CARBON	10K JA	1/6W
R707	401 024 6700	CARBON	100 JA	1/6W
R708	401 027 2600	CARBON	5.6K JA	1/6W
R709	401 027 0309	CARBON	47K JA	1/6W
R710	401 024 7004	CARBON	1K JA	1/6W
R711	401 025 4200	CARBON	1.8K JA	1/6W
R712	401 027 8305	CARBON	820 JA	1/6W
R713	401 024 9701	CARBON	12K JA	1/6W
R715	401 026 4308	CARBON	3.3K JA	1/6W
R716	401 025 1902	CARBON	15K JA	1/6W
R717	401 027 5502	CARBON	6.8K JA	1/6W
R718	401 025 1902	CARBON	15K JA	1/6W
R721	401 025 1902	CARBON	15K JA	1/6W
R722	401 027 5908	CARBON	68K JA	1/6W
R723	401 026 1000	CARBON	2.7K JA	1/6W
R724	401 025 1902	CARBON	15K JA	1/6W
R726	401 024 7400	CARBON	10K JA	1/6W
R727	401 026 4605	CARBON	33K JA	1/6W
R728	401 027 2600	CARBON	5.6K JA	1/6W
R729	401 025 1902	CARBON	15K JA	1/6W
R730	401 025 8208	CARBON	22K JA	1/6W
R732	401 026 4308	CARBON	3.3K JA	1/6W
R733	401 026 4605	CARBON	33K JA	1/6W
R734	401 026 9907	CARBON	4.7K JA	1/6W
R735	401 025 8208	CARBON	22K JA	1/6W
R736	401 026 7408	CARBON	39K JA	1/6W
R737	401 024 7004	CARBON	1K JA	1/6W
R738	401 024 7400	CARBON	10K JA	1/6W
R739	401 025 1902	CARBON	15K JA	1/6W
R741	401 024 7400	CARBON	10K JA	1/6W
R742	401 027 5502	CARBON	6.8K JA	1/6W
R743	401 025 1308	CARBON	150 JA	1/6W
R744	401 026 9907	CARBON	4.7K JA	1/6W
R745	401 025 1308	CARBON	150 JA	1/6W
R746	401 026 9907	CARBON	4.7K JA	1/6W
R747	401 024 6700	CARBON	100 JA	1/6W
R748	401 024 6700	CARBON	100 JA	1/6W
R749	401 025 8208	CARBON	22K JA	1/6W
R750	401 025 8208	CARBON	22K JA	1/6W
R751	401 027 5502	CARBON	6.8K JA	1/6W
R752	401 024 9305	CARBON	1.2K JA	1/6W
R753	401 026 4308	CARBON	3.3K JA	1/6W
R754	401 027 8602	CARBON	8.2K JA	1/6W
R755	401 024 7400	CARBON	10K JA	1/6W
R756	401 026 9907	CARBON	4.7K JA	1/6W
R757	401 027 0309	CARBON	47K JA	1/6W
R758	401 025 1902	CARBON	15K JA	1/6W
R759	401 026 1307	CARBON	27K JA	1/6W
R760	401 019 1901	CARBON	3.9K JA	1/4W
R761	401 068 4700	OXIDE-MT	4.7K JA	2W
R762	401 025 8208	CARBON	22K JA	1/6W
R763	401 025 8208	CARBON	22K JA	1/6W
R764	401 024 7400	CARBON	10K JA	1/6W
R765	401 027 2600	CARBON	5.6K JA	1/6W
R767	401 024 6700	CARBON	100 JA	1/6W
R768	401 027 2600	CARBON	5.6K JA	1/6W
R769	401 025 8208	CARBON	22K JA	1/6W
R771	401 027 2600	CARBON	5.6K JA	1/6W
R772	401 024 7004	CARBON	1K JA	1/6W
R773	401 024 7004	CARBON	1K JA	1/6W
R779	401 024 7400	CARBON	10K JA	1/6W
R780	401 024 7707	CARBON	100K JA	1/6W
R781	401 026 9907	CARBON	4.7K JA	1/6W
R782	401 025 8208	CARBON	22K JA	1/6W
R783	401 027 2600	CARBON	5.6K JA	1/6W

Ref. No.	Part No.	Description
R784	401 027 2600	CARBON 5.6K JA 1/6W
R785	401 027 2600	CARBON 5.6K JA 1/6W
R787	401 025 8208	CARBON 22K JA 1/6W
R788	401 025 8208	CARBON 22K JA 1/6W
R790	401 024 7400	CARBON 10K JA 1/6W
R791	401 068 4700	OXIDE-MT 4.7K JA 2W
R792	401 025 1902	CARBON 15K JA 1/6W
R794	401 026 1307	CARBON 27K JA 1/6W
R796	401 026 6609	CARBON 390 JA 1/6W
R797	401 024 7400	CARBON 10K JA 1/6W
R798	401 025 1605	CARBON 1.5K JA 1/6W
R799	401 025 4606	CARBON 18K JA 1/6W
R801	401 026 6609	CARBON 390 JA 1/6W
R802	401 026 6609	CARBON 390 JA 1/6W
R803	401 026 6609	CARBON 390 JA 1/6W
R807	401 027 8602	CARBON 8.2K JA 1/6W
R808	401 026 3905	CARBON 330 JA 1/6W
R811	401 024 7707	CARBON 100K JA 1/6W
R812	401 025 4606	CARBON 18K JA 1/6W
R813	401 024 9701	CARBON 12K JA 1/6W
R814	401 026 1000	CARBON 2.7K JA 1/6W
R815	401 026 1000	CARBON 2.7K JA 1/6W
R816	401 024 7400	CARBON 10K JA 1/6W
R817	401 026 4605	CARBON 33K JA 1/6W
R818	401 027 8602	CARBON 8.2K JA 1/6W
R821	401 024 7707	CARBON 100K JA 1/6W
R822	401 025 4606	CARBON 18K JA 1/6W
R823	401 027 5502	CARBON 6.8K JA 1/6W
R824	401 026 9907	CARBON 4.7K JA 1/6W
R825	401 027 2600	CARBON 5.6K JA 1/6W
R826	401 024 7400	CARBON 10K JA 1/6W
R831	401 025 8208	CARBON 22K JA 1/6W
R832	401 026 1000	CARBON 2.7K JA 1/6W
R851	401 024 9701	CARBON 12K JA 1/6W
R852	401 024 9701	CARBON 12K JA 1/6W
R853	401 027 2303	CARBON 560 JA 1/6W
R854	401 024 7707	CARBON 100K JA 1/6W
R855	401 027 6608	CARBON 75 JA 1/6W
R856	401 027 6608	CARBON 75 JA 1/6W
R857	401 027 6608	CARBON 75 JA 1/6W
R858	401 026 1307	CARBON 27K JA 1/6W
R859	401 024 7400	CARBON 10K JA 1/6W
R864	401 027 6608	CARBON 75 JA 1/6W
R865	401 027 0309	CARBON 47K JA 1/6W
R866	401 027 5205	CARBON 680 JA 1/6W
R868	401 027 6608	CARBON 75 JA 1/6W
R871	401 027 6608	CARBON 75 JA 1/6W
R873	401 027 8602	CARBON 8.2K JA 1/6W
R877	401 024 6700	CARBON 100 JA 1/6W
R878	401 024 7004	CARBON 1K JA 1/6W
R881	401 024 7004	CARBON 1K JA 1/6W
R882	401 024 9305	CARBON 1.2K JA 1/6W
R883	401 026 4308	CARBON 3.3K JA 1/6W
R884	401 024 7004	CARBON 1K JA 1/6W
R891	401 025 1902	CARBON 15K JA 1/6W
R892	401 027 2600	CARBON 5.6K JA 1/6W
R894	401 025 1605	CARBON 1.5K JA 1/6W
R896	401 026 1000	CARBON 2.7K JA 1/6W
R897	401 024 9305	CARBON 1.2K JA 1/6W
VARIABLE RESISTER		
VR120	610 019 2584	VR B-10K
	610 019 3901	VR B-10K
VR401	610 019 2584	VR B-10K
	610 019 3901	VR B-10K
VR451	610 019 3826	VR B-100
VR551	610 019 3871	VR B-2K
	610 231 5219	VR B-2K

Ref. No.	Part No.	Description
TRANSFORMER		
T101	610 037 5727	S TRANS
T121	610 037 4522	S COIL
T431	610 000 1053	DRIVE TRANS
	610 000 1060	DRIVE TRANS
⚠T471	645 002 9493	TRANS, FLYBACK
⚠T511	610 221 0026	CONVERTER TRANS
	610 228 1552	CONVERTER TRANS
COIL		
LJ733	610 031 4504	PEAKING COIL
L103	610 031 4177	PEAKING COIL
L121	610 031 3873	PEAKING COIL 10UHK
L126	610 031 4290	PEAKING COIL 8.2UHK
L141	610 031 4290	PEAKING COIL 8.2UHK
L152	610 029 5544	PEAKING COIL
L154	610 029 5544	PEAKING COIL
L161	610 031 3019	PEAKING COIL 10UHK
L280	610 031 3873	PEAKING COIL 10UHK
L281	610 031 4252	PEAKING COIL 6.8UHK
L442	610 203 9078	COIL
	610 230 8839	COIL
L451	610 031 3354	PEAKING COIL
	610 210 3908	PEAKING COIL 33UHK
L452	610 032 4381	FILTER COIL
	610 032 4404	FILTER COIL
L501	610 031 5945	LINE FILTER
	610 031 5969	LINE FILTER
⚠L503	610 031 5952	LINE FILTER
L702	610 031 4214	PEAKING COIL
L703	610 031 4214	PEAKING COIL
L704	610 031 4030	PEAKING COIL
L705	610 031 4542	PEAKING COIL
L706	610 031 3873	PEAKING COIL 10UHK
DIODE		
D172	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D192	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D211	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D212	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D213	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D214	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D215	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D231	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D232	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D275	407 048 1202	ZENER DIODE EQA02-05E
D431	407 048 4906	ZENER DIODE EQA02-09A
	407 048 5101	ZENER DIODE EQA02-09B
D441	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
	407 064 6908	DIODE TVR4N(X)
D451	407 005 7308	DIODE EM01Z
	408 009 9008	DIODE BYD33D
D485	407 007 6606	DIODE ES1
	408 009 9305	DIODE BYD33G
	407 013 1909	DIODE 1S1834
D486	407 005 4505	DIODE DS442X

Ref. No.	Part No.	Description
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D503	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D504	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D505	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D506	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D514	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
⚠D515	407 105 8700	PHOTO COUPLE PC113B
	408 009 8407	PHOTO COUPLE CNY17F-30PT6
D516	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D517	407 007 6606	DIODE ES1
	407 007 6903	DIODE ES1Z
	408 009 9008	DIODE BYD33D
D518	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D519	407 048 4005	ZENER DIODE EQA02-08A
	407 048 4203	ZENER DIODE EQA02-08B
D551	407 007 7702	DIODE EU2A
	408 009 9206	DIODE BYD33J
	407 064 7004	DIODE 1S1835
D553	407 007 6606	DIODE ES1
	408 009 9305	DIODE BYD33G
	407 013 1909	DIODE 1S1834
D554	407 007 7801	DIODE EU2Z
	408 009 9305	DIODE BYD33G
	407 013 1909	DIODE 1S1834
D555	407 007 7603	DIODE EU2
	407 007 7801	DIODE EU2Z
D561	407 048 2407	ZENER DIODE EQA02-06E
	407 048 2605	ZENER DIODE EQA02-06F
D562	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D564	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D565	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D566	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D583	407 048 1103	ZENER DIODE EQA02-05D
	407 048 1202	ZENER DIODE EQA02-05E
D591	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D593	407 005 4505	DIODE DS442X

Ref. No.	Part No.	Description
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D701	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D702	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D703	409 013 0104	IC HZT33
	409 026 8005	IC L5630
	409 057 5103	IC UPC574J
D704	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D801	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D802	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D803	407 116 6504	LED SLP-181B-51
D804	407 055 7907	ZENER DIODE RD3.6EL
D810	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D811	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D812	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D851	407 075 9905	ZENER DIODE EQA03-11A
D875	407 075 9905	ZENER DIODE EQA03-11A
MISCELLANEUS		
⚠F501	423 022 3000	FUSE 250V 4A
	423 007 2103	FUSE 250V 4A
	423 021 8006	FUSE 250V 4A
F501-A1	645 000 5077	HOLDER, FUSE
F501-A2	645 000 5077	HOLDER, FUSE
A101	610 217 7077	UV VARACTOR TUNER
A701	610 224 5806	RC PREAMP 409-1L
K801	610 009 8275	SOCKET 21P
	610 218 6673	SOCKET 21P
	610 225 2361	SOCKET 21P
K801A	610 239 6522	SOCKET MTG BRKT-E5HE
K801A1	412 009 8107	SCR TAP2 FLG 3X10E
K801A2	412 009 8107	SCR TAP2 FLG 3X10E
PS501	408 003 6805	THERMISTOR 902P44E180MR4
	408 015 1904	THERMISTOR PA3A5180B270
	408 000 3906	TH PTH451A112BF180M270
SW220	610 011 2728	LEVER SWITCH
⚠SW501	610 218 9162	PUSH SWITCH
SW702A	610 216 7962	PUSH SWITCH
SW705	610 011 4432	PUSH SWITCH
SW706	610 011 4432	PUSH SWITCH
SW707	610 011 4432	PUSH SWITCH
SW708	610 011 4432	PUSH SWITCH
X101	421 004 7701	SAW F 1SF5344
X126	610 012 0617	CERAMIC TRAP
X127	610 015 3011	CERAMIC FILTER
	645 000 4490	TRAP, CERAMIC

Ref. No.	Part No.	Description
X152	610 012 0464	CERAMIC FILTER
X154	610 012 1621	CERAMIC FILTER
X201	645 000 2502	OSC, CRYSTAL 4.433619MHZ
	610 2[illegible] 3347	CRYSTAL OSCILLATOR
X701	610 0[illegible]2 2857	CERAMIC OSCILLATOR
	610 212 8765	CERAMIC OSCILLATOR
	610 237 7156	CERAMIC OSCILLATOR KBR-4.

610 248 5455 CRT PCB ASSY E6SZP UE2780

Ref. No.	Part No.	Description
TRANSISTER		
Q601	405 040 5600	TR 2SC2228-D
	405 029 6901	TR 2SC2228-E
	406 000 5104	TR 2SC2229-O(SAN-2)
	406 000 5203	TR 2SC2229-Y(SAN-2)
Q611	405 040 5600	TR 2SC2228-D
	405 029 6901	TR 2SC2228-E
	406 000 5104	TR 2SC2229-O(SAN-2)
	406 000 5203	TR 2SC2229-Y(SAN-2)
Q621	405 040 5600	TR 2SC2228-D
	405 029 6901	TR 2SC2228-E
	406 000 5104	TR 2SC2229-O(SAN-2)
	406 000 5203	TR 2SC2229-Y(SAN-2)
Q640	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-O(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
CAPACITOR		
C601	403 073 2900	CERAMIC 390P K 50V
C611	403 073 2900	CERAMIC 390P K 50V
C621	403 073 2900	CERAMIC 390P K 50V
C631	403 077 2708	CERAMIC 1000P P 2K
C652A	403 067 5900	MT-COMPO 0.12U J 50V
RESISTER		
R601	401 019 1000	CARBON 390 JA 1/4W
R602	401 025 7805	CARBON 2.2K JA 1/6W
R603	401 024 7004	CARBON 1K JA 1/6W
R604	401 065 4604	OXIDE-MT 12K JA 2W
R605	401 002 0102	SOLID 3.3K KA 1/2W
R611	401 019 1000	CARBON 390 JA 1/4W
R612	401 025 7805	CARBON 2.2K JA 1/6W
R613	401 025 7805	CARBON 2.2K JA 1/6W
R614	401 065 4604	OXIDE-MT 12K JA 2W
R615	401 002 0102	SOLID 3.3K KA 1/2W
R621	401 019 1000	CARBON 390 JA 1/4W
R622	401 025 7805	CARBON 2.2K JA 1/6W
R623	401 025 4200	CARBON 1.8K JA 1/6W
R624	401 065 4604	OXIDE-MT 12K JA 2W
R625	401 002 0102	SOLID 3.3K KA 1/2W
R627	401 026 9600	CARBON 470 JA 1/6W
R631	401 001 7607	SOLID 270K KA 1/2W
R632	401 018 1605	CARBON 33 JA 1/4W
R641	401 026 9907	CARBON 4.7K JA 1/6W
R642	401 026 4308	CARBON 3.3K JA 1/6W
VARIABLE RESISTER		
VR601	610 019 0825	VR
VR602	610 019 2881	VR 8CFRB-1K
VR611	610 019 0825	VR
VR612	610 019 2881	VR 8CFRB-1K
VR621	610 019 0825	VR
VR640	610 019 2881	VR 8CFRB-1K
COIL		
L651	610 032 0918	INDUCTOR
MISCELLANEUS		
⚠K601	645 002 9479	SOCKET, CRT 8P

OUT OF CIRCUIT BOARD

Ref. No.	Part No.	Description
PICTURE TUBE		
⚠Q901	414 007 7403	CRT A34EDU13X01
COIL		
⚠L901	610 225 3535	DEGAUSSING COIL
	610 227 7296	DEGAUSSING COIL
MISCELLANEUS		
KDY	610 013 9596	MINI CONNECTOR 5P-SOCKET
SP901	610 215 6089	SPEAKER
	610 211 7943	SPEAKER
WFO	610 246 9912	CORD, FOCUS
⚠W901	610 011 7099	AC CORD
	610 011 9734	AC CORD
	610 011 9765	AC CORD
	610 238 3379	AC CORD
W902	610 024 2159	GROUNDING CONNECTOR

CHASSIS ELECTRICAL PARTS LIST Model C20EE13EE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No.,Part No.,and descriptions. The main PCB unit will be supplied without tuner and flyback transformer. They should be ordered separately.

Read description in the Capacitor and Resister as follows:

CAPACITOR

CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10PF

A: Not specified	B: ± 0.1PF	C: ± 0.25PF
D: ± 0.5PF	F: ± 1PF	G: ± 2PF
R: +0.25 - 0PF	S: +0 - 0.25PF	E: +0 - 1PF

More than 10PF

A: Not specified	B: ± 0.1%	C: ± 0.25%
D: ± 0.5%	F: ± 1%	G: ± 2%
H: ± 3%	J: ± 5%	K: ± 10%
L: ± 15%	M: ± 20%	N: ± 30%
P: +100 - 0%	Q: +30 - 10%	T: +50 - 10%
U: +75 - 10%	V: +20 - 10%	W: +100 - 10%
X: +40 - 20%	Y: +150 - 10%	Z: +80 - 20%

- 100P — Rated value:P=pico farad,U=Micro farad

Material:

CERAMIC.....Ceramic
MT-PAPER.....Metallized Paper
POLYESTER.....Polyester
MT-POLYEST.....Metallized Polyester
POLYPRO.....Polypropylene
MT-POLYPRO.....Metallized Polypropylene
COMPO FILM.....Composite film
MT-COMPO.....Metallized Cmposite
STYRENE.....Styrene
TA-SOLID.....Tantalum Solid
AL-SOLID.....Aluminium Solid
ELECT.....Electrolytic
NP-ELECT.....Non-polarized Electrolytic
OS-SOLID.....Aluminium Solid with Organic Semiconductive Electrolytic
DL-ELECT.....Double Layered Electrolytic

RESISTER

CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A:General B:Non flammable Z:Low noise
  Other :Temperature coefficient
- J — Tolerance Symbols:
  A: ± 0.05% B: ± 0.1% C: ± 0.25% D: ± 0.5%
  F: ± 1% G: ± 2% J: ± 5% K: ± 10%
  M: ± 20% P:+5 - 15%
- 4.7K — Rated value, ohms:
  K:1,000, M:1,000,000

Material:

CARBON .....Carbon
MT-FILM.....Metal Film
OXIDE-MT .....Oxide Metal Film
SOLID .....Composition
MT-GLAZE .....Metal Glaze
WIRE WOUND .....Wire Wound
CERAMIC RES.....Ceramic
FUSIBLE RES .....Fusible

Ref. No.	Part No.	Description
610 248 5103 MAIN PCB ASSY E6KZP UE2779		
TRANSISTER		
Q101	405 013 3305	TR 2SC2216(SAN)
Q111	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q113	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q122	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q124	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q154	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R

Ref. No.	Part No.	Description
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q156	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q171	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q172	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q202	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q203	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q291	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q292	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q431	405 014 2406	TR 2SC2383-O (SAN)
	405 014 2505	TR 2SC2383-R (SAN)
Q432	405 022 6809	TR 2SD1651-CTV-YB
Q511	406 000 6804	TR 2SA1015-GR (SAN)
	405 001 7407	TR 2SA1015-O (SAN)
	405 001 7605	TR 2SA1015-Y (SAN)
	405 004 3109	TR 2SA564A-Q (CU)
	405 004 3208	TR 2SA564A-R (CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q512	405 058 0208	TR 2SC3807-R-CTV-YA
Q513	405 022 8506	TR 2SD1710-CTV-YB
Q551	405 008 4805	TR 2SB764-E
Q552	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R

Ref. No.	Part No.	Description
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q553	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q554	405 008 4805	TR 2SB764-E
Q701	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q702	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q703	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA

Ref. No.	Part No.	Description
	405 020 7907	TR 2SC945A-RA
Q704	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q705	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q706	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q707	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q708	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA

Ref. No.	Part No.	Description
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q709	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q711	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q713	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q714	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q715	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP

Ref. No.	Part No.	Description
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q716	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q718	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q721	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q722	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q723	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP

Ref. No.	Part No.	Description
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q781	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q801	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q852	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q853	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q855	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q856	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q857	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q858	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q891	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
INTEGRATED CIRCUIT		
IC101	409 307 2500	IC TDA8362/N3
IC171	409 073 1509	IC AN5265
IC270	409 291 0605	IC TDA4661/V2
IC280	409 293 4902	IC TDA8395/N1
IC290	409 051 3006	IC TC4053BP
IC451	409 183 5008	IC LA7832
IC551	409 143 3402	IC AN78M12-LB

Ref. No.	Part No.	Description
	409 026 9507	IC L78M12-RA
IC552	409 285 5203	IC L78M08-RA
IC701	410 173 1900	IC M37211M2-522SP
IC710	409 019 6209	IC LA7910
IC720	409 243 4200	IC MN1380-R
IC790	409 247 7702	IC ST24C02AB1
	409 257 7204	IC X24C02P
	409 281 8307	IC 24C02A/P
CAPACITOR		
C101	403 125 5606	ELECT 100U M 16V
C102	403 061 9607	POLYESTER 0.047U J 50V
	403 062 0207	POLYESTER 0.047U J 50V
C103	403 121 3507	ELECT 4.7U M 50V
C104	403 121 2401	ELECT 22U M 16V
C105	403 067 5603	MT-COMPO 0.1U J 50V
C106	403 109 6407	ELECT 10U M 50V
C108	403 011 3808	CERAMIC 120P J 50V
C109	403 033 3602	CERAMIC 82P J 50V
C110	403 026 1103	CERAMIC 47P J 50V
C113	403 069 8305	CERAMIC 0.01U Z 50V
C114	403 069 8305	CERAMIC 0.01U Z 50V
C115	403 069 8305	CERAMIC 0.01U Z 50V
C117	403 134 9602	ELECT 47U M 16V
C119	403 010 5704	CERAMIC 12P J 50V
C121	403 067 7805	MT-COMPO 0.47U J 50V
C122	403 067 5603	MT-COMPO 0.1U J 50V
C123	403 109 6407	ELECT 10U M 50V
C126	403 061 2202	POLYESTER 3900P K 50V
	403 061 2707	POLYESTER 3900P K 50V
C128	403 121 3408	ELECT 2.2U M 50V
C129	403 028 1606	CERAMIC 56P J 50V
C130	403 069 8305	CERAMIC 0.01U Z 50V
C131	403 121 3507	ELECT 4.7U M 50V
C132	403 067 5603	MT-COMPO 0.1U J 50V
C134	403 069 0507	CERAMIC 1000P K 50V
C135	403 067 5603	MT-COMPO 0.1U J 50V
C136	403 134 5802	ELECT 470U M 16V
C137	403 067 5603	MT-COMPO 0.1U J 50V
C138	403 121 3408	ELECT 2.2U M 50V
C142	403 069 8305	CERAMIC 0.01U Z 50V
C143	403 028 2009	CERAMIC 56P J 50V
C144	403 067 5603	MT-COMPO 0.1U J 50V
C145	403 067 5603	MT-COMPO 0.1U J 50V
C152	403 013 1901	CERAMIC 150P J 50V
C154	403 013 1901	CERAMIC 150P J 50V
C162	403 069 8305	CERAMIC 0.01U Z 50V
C164	403 069 8305	CERAMIC 0.01U Z 50V
C172	403 067 7805	MT-COMPO 0.47U J 50V
C173	403 059 3600	POLYESTER 2200P K 50V
	403 059 4201	POLYESTER 2200P K 50V
C174	403 134 5901	ELECT 33U M 16V
C178	403 121 2401	ELECT 22U M 16V
C180	403 067 5603	MT-COMPO 0.1U J 50V
C181	403 045 1801	ELECT 1000U M 25V
C182	403 107 9905	ELECT 10U M 16V
C183	403 107 9905	ELECT 10U M 16V
C184	403 067 6709	MT-COMPO 0.22U J 50V
C185	403 111 8604	ELECT 470U M 25V
C186	403 069 8305	CERAMIC 0.01U Z 50V
C187	403 067 6709	MT-COMPO 0.22U J 50V
C188	403 121 3507	ELECT 4.7U M 50V
C192	403 134 6007	ELECT 330U M 16V
C200	403 014 0200	CERAMIC 18P J 50V
C202	403 067 5603	MT-COMPO 0.1U J 50V
C203	403 061 8105	POLYESTER 4700P K 50V
	403 061 8808	POLYESTER 4700P K 50V
C204	403 067 5603	MT-COMPO 0.1U J 50V
C205	403 067 5603	MT-COMPO 0.1U J 50V
C208	403 067 5603	MT-COMPO 0.1U J 50V
C209	403 067 5603	MT-COMPO 0.1U J 50V
C210	403 067 5603	MT-COMPO 0.1U J 50V
C215	403 067 7805	MT-COMPO 0.47U J 50V
C216	403 067 5603	MT-COMPO 0.1U J 50V
C217	403 121 3507	ELECT 4.7U M 50V
C221	403 067 5603	MT-COMPO 0.1U J 50V
C231	403 191 4503	NP-ELECT 0.47U M 160V
C232	403 138 1602	ELECT 1U M 100V
C270	403 059 5901	POLYESTER 0.022U K 50V
	403 059 6700	POLYESTER 0.022U K 50V
C271	403 069 0507	CERAMIC 1000P K 50V
C272	403 069 0507	CERAMIC 1000P K 50V
C275	403 107 9905	ELECT 10U M 16V
C280	403 067 6709	MT-COMPO 0.22U J 50V
C281	403 067 5603	MT-COMPO 0.1U J 50V
C282	403 134 9602	ELECT 47U M 16V
C283	403 059 5901	POLYESTER 0.022U K 50V
	403 059 6700	POLYESTER 0.022U K 50V
C285	403 033 3602	CERAMIC 82P J 50V
C286	403 026 1103	CERAMIC 47P J 50V
C287	403 069 8305	CERAMIC 0.01U Z 50V
C288	403 030 5401	CERAMIC 68P J 50V
C291	403 069 8305	CERAMIC 0.01U Z 50V
C401	403 067 5603	MT-COMPO 0.1U J 50V
C402	403 062 0306	POLYESTER 0.047U K 50V
	403 062 1006	POLYESTER 0.047U K 50V
C403	403 061 8105	POLYESTER 4700P K 50V
	403 061 8808	POLYESTER 4700P K 50V
C404	403 086 2300	NP-ELECT 1U M 50V
C405	403 060 0506	POLYESTER 2700P K 50V
	403 060 1107	POLYESTER 2700P K 50V
C406	403 059 5901	POLYESTER 0.022U K 50V
	403 059 6700	POLYESTER 0.022U K 50V
C407	403 125 5606	ELECT 100U M 16V
C431	403 062 6902	POLYESTER 0.056U K 50V
	403 062 7404	POLYESTER 0.056U K 50V
C432	403 075 7101	CERAMIC 1000P K 500V
C433	403 076 3102	CERAMIC 3900P K 500V
C434	403 135 9403	ELECT 47U M 35V
C435	404 030 6108	MT-POLYPRO 9100P J 1.5K
	404 030 6207	MT-POLYPRO 9100P J 1.5K
C436	403 165 7004	CERAMIC 470P K 3K
	403 078 5401	CERAMIC 470P K 3K
C437	403 067 7805	MT-COMPO 0.47U J 50V
C441	403 082 8009	POLYPRO 0.2U J 200V
C442	403 082 7804	POLYPRO 0.18U J 200V
C443	403 134 1903	ELECT 4.7U M 160V
C444	403 165 7202	CERAMIC 390P K 3K
	403 078 4701	CERAMIC 390P K 3K
C445	403 076 1405	CERAMIC 2700P K 500V
C451	403 119 8002	ELECT 470U M 25V
C452	403 148 1807	ELECT 220U M 35V
C453	403 036 0905	CERAMIC 39P K 500V
C454	403 056 9506	POLYESTER 0.01U J 50V
C455	403 274 9203	POLYESTER 820P J 100V
C456	403 109 6407	ELECT 10U M 50V
C461	403 135 0004	ELECT 2200U M 25V
C463	403 178 4007	POLYESTER 0.1U J 100V
C485	403 109 5707	ELECT 220U M 25V
C501	404 047 3503	MT-POLYEST 0.1U M 125V
	404 047 3602	MT-POLYEST 0.1U M 125V
	404 007 9903	MT-COMPO 0.1U M 250V
	404 044 0901	MT-COMPO 0.1U M 250V
C502	404 047 3503	MT-POLYEST 0.1U M 125V
	404 047 3602	MT-POLYEST 0.1U M 125V
	404 007 9903	MT-COMPO 0.1U M 250V
	404 044 0901	MT-COMPO 0.1U M 250V
C503	403 076 7100	CERAMIC 1000P M 1K
C504	403 076 7100	CERAMIC 1000P M 1K
C505	403 076 7100	CERAMIC 1000P M 1K

Ref. No.	Part No.	Description
C506	403 076 7100	CERAMIC 1000P M 1K
C507	404 047 1806	ELECT 100U M 400V
C513	403 061 8105	POLYESTER 4700P K 50V
	403 061 8808	POLYESTER 4700P K 50V
C514	403 067 5603	MT-COMPO 0.1U J 50V
C515	403 058 2406	POLYESTER 0.015U J 50V
	403 058 3007	POLYESTER 0.015U J 50V
C516	403 165 8407	CERAMIC 680P K 2K
	403 077 9103	CERAMIC 680P K 2K
C517	403 058 3205	POLYESTER 0.015U K 50V
	403 058 3809	POLYESTER 0.015U K 50V
C518	403 076 7100	CERAMIC 1000P M 1K
C533	404 008 2606	CERAMIC 1000P M 400V
	404 008 4303	CERAMIC 1000P M 400V
	404 047 8102	CERAMIC 1000P M 400V
C534	404 008 2606	CERAMIC 1000P M 400V
	404 008 4303	CERAMIC 1000P M 400V
	404 047 8102	CERAMIC 1000P M 400V
C551	403 165 8605	CERAMIC 470P K 2K
	403 077 7802	CERAMIC 470P K 2K
C552	403 167 8603	CERAMIC 220P K 2K
	403 077 5105	CERAMIC 220P K 2K
C553	403 165 6106	CERAMIC 470P K 1K
	403 077 0407	CERAMIC 470P K 1K
C554	403 165 6106	CERAMIC 470P K 1K
	403 077 0407	CERAMIC 470P K 1K
C555	403 165 6106	CERAMIC 470P K 1K
	403 077 0407	CERAMIC 470P K 1K
C561	404 042 4703	ELECT 220U M 160V
C562	403 055 5509	ELECT 22U M 200V
C563	403 108 0208	ELECT 330U M 35V
C564	403 148 0404	ELECT 1000U M 25V
C565	403 148 0404	ELECT 1000U M 25V
C571	403 148 0305	ELECT 470U M 16V
C572	403 148 0305	ELECT 470U M 16V
C583	403 038 3409	ELECT 1000U M 6.3V
C701	403 056 7106	POLYESTER 1000P J 50V
C702	403 020 4803	CERAMIC 270P J 50V
C703	403 009 3100	CERAMIC 100P J 50V
C704	403 068 9006	CERAMIC 100P K 50V
C705	403 068 9006	CERAMIC 100P K 50V
C706	403 068 9006	CERAMIC 100P K 50V
C707	403 068 9006	CERAMIC 100P K 50V
C708	403 068 9006	CERAMIC 100P K 50V
C709	403 109 6308	ELECT 1U M 50V
C711	403 121 3507	ELECT 4.7U M 50V
C712	403 121 3507	ELECT 4.7U M 50V
C713	403 109 6407	ELECT 10U M 50V
C714	403 109 6407	ELECT 10U M 50V
C715	403 121 3507	ELECT 4.7U M 50V
C716	403 121 3507	ELECT 4.7U M 50V
C717	403 071 1707	CERAMIC 180P K 50V
C718	403 069 8305	CERAMIC 0.01U Z 50V
C719	403 073 3907	CERAMIC 3900P K 50V
C721	403 067 5603	MT-COMPO 0.1U J 50V
C722	403 134 9602	ELECT 47U M 16V
C723	403 026 0700	CERAMIC 47P J 50V
C724	403 026 0700	CERAMIC 47P J 50V
C725	403 069 8305	CERAMIC 0.01U Z 50V
C726	403 072 7708	CERAMIC 330P K 50V
C728	403 069 8305	CERAMIC 0.01U Z 50V
C729	403 107 9905	ELECT 10U M 16V
C731	403 067 5603	MT-COMPO 0.1U J 50V
C732	403 067 5603	MT-COMPO 0.1U J 50V
C741	403 067 5603	MT-COMPO 0.1U J 50V
C743	403 072 8200	CERAMIC 330P K 50V
C744	403 072 8200	CERAMIC 330P K 50V
C745	403 072 8200	CERAMIC 330P K 50V
C746	403 057 0403	POLYESTER 0.01U K 50V
	403 057 1004	POLYESTER 0.01U K 50V

Ref. No.	Part No.	Description
C854	403 107 9905	ELECT 10U M 16V
C857	403 134 5901	ELECT 33U M 16V
C873	403 107 9905	ELECT 10U M 16V
C874	403 109 6308	ELECT 1U M 50V
RESISTER		
RB701	610 037 3273	RESISTOR BLOCK
RB703	645 003 0376	C-NETWORK
R101	401 025 7805	CARBON 2.2K JA 1/6W
R103	401 024 6700	CARBON 100 JA 1/6W
R104	401 027 2600	CARBON 5.6K JA 1/6W
R105	401 024 7004	CARBON 1K JA 1/6W
R106	401 025 7409	CARBON 220 JA 1/6W
R107	401 026 0409	CARBON 27 JA 1/6W
R111	401 027 5205	CARBON 680 JA 1/6W
R116	401 027 8305	CARBON 820 JA 1/6W
R121	401 027 0309	CARBON 47K JA 1/6W
R124	401 027 5502	CARBON 6.8K JA 1/6W
R125	401 025 3807	CARBON 180 JA 1/6W
R126	401 027 2600	CARBON 5.6K JA 1/6W
R127	401 024 6700	CARBON 100 JA 1/6W
R128	401 027 2600	CARBON 5.6K JA 1/6W
R129	401 024 7400	CARBON 10K JA 1/6W
R131	401 026 9907	CARBON 4.7K JA 1/6W
R132	401 026 7408	CARBON 39K JA 1/6W
R133	401 024 9305	CARBON 1.2K JA 1/6W
R134	401 024 7004	CARBON 1K JA 1/6W
R137	401 016 2604	CARBON 220 JA 1/4W
R139	401 024 6700	CARBON 100 JA 1/6W
R150	401 024 7004	CARBON 1K JA 1/6W
R161	401 024 9701	CARBON 12K JA 1/6W
R163	401 027 5205	CARBON 680 JA 1/6W
R166	401 027 0309	CARBON 47K JA 1/6W
R169	401 027 9005	CARBON 82K JA 1/6W
R170	401 025 1902	CARBON 15K JA 1/6W
R171	401 024 7400	CARBON 10K JA 1/6W
R172	401 027 2303	CARBON 560 JA 1/6W
R173	401 025 1902	CARBON 15K JA 1/6W
R177	401 025 8208	CARBON 22K JA 1/6W
R178	401 024 7400	CARBON 10K JA 1/6W
R183	401 024 7004	CARBON 1K JA 1/6W
R184	401 026 4605	CARBON 33K JA 1/6W
R185	401 017 6205	CARBON 3.3 JA 1/4W
R190	401 026 6609	CARBON 390 JA 1/6W
R191	401 024 9701	CARBON 12K JA 1/6W
R192	401 026 9303	CARBON 47 JA 1/6W
R193	401 027 5205	CARBON 680 JA 1/6W
R198	401 026 9303	CARBON 47 JA 1/6W
R202	401 024 7707	CARBON 100K JA 1/6W
R203	401 024 6700	CARBON 100 JA 1/6W
R204	401 024 6700	CARBON 100 JA 1/6W
R205	401 024 6700	CARBON 100 JA 1/6W
R206	401 024 6700	CARBON 100 JA 1/6W
R207	401 024 6700	CARBON 100 JA 1/6W
R208	401 024 6700	CARBON 100 JA 1/6W
R213	401 024 7400	CARBON 10K JA 1/6W
R214	401 024 7400	CARBON 10K JA 1/6W
R215	401 025 4200	CARBON 1.8K JA 1/6W
R219	401 019 1000	CARBON 390 JA 1/4W
R223	401 027 0309	CARBON 47K JA 1/6W
R225	401 024 7400	CARBON 10K JA 1/6W
R226	401 026 9907	CARBON 4.7K JA 1/6W
R227	401 025 8703	CARBON 220K JA 1/6W
R230	401 026 7408	CARBON 39K JA 1/6W
R231	401 014 6109	CARBON 150K JA 1/4W
R232	401 024 7004	CARBON 1K JA 1/6W
R233	401 060 7509	SOLID 1.5K KA 1/2W
R235	401 026 7408	CARBON 39K JA 1/6W
R275	401 025 7409	CARBON 220 JA 1/6W
R282	401 026 1000	CARBON 2.7K JA 1/6W

Ref. No.	Part No.	Description		
R283	401 026 7002	CARBON	3.9K JA	1/6W
R291	401 025 7409	CARBON	220 JA	1/6W
R292	401 025 7409	CARBON	220 JA	1/6W
R293	401 024 7400	CARBON	10K JA	1/6W
R294	401 025 1605	CARBON	1.5K JA	1/6W
R308	401 025 8703	CARBON	220K JA	1/6W
R401	401 024 6700	CARBON	100 JA	1/6W
R402	401 024 8001	CARBON	1M JA	1/6W
R403	401 024 6700	CARBON	100 JA	1/6W
R404	401 025 8208	CARBON	22K JA	1/6W
R405	401 024 6700	CARBON	100 JA	1/6W
R406	401 026 7606	CARBON	390K JA	1/6W
R407	401 025 8208	CARBON	22K JA	1/6W
R408	401 024 6700	CARBON	100 JA	1/6W
R409	401 026 9907	CARBON	4.7K JA	1/6W
R410	401 025 8208	CARBON	22K JA	1/6W
R432	401 024 7004	CARBON	1K JA	1/6W
R433	401 007 1104	CARBON	1K JA	1/2W
R434	401 009 9306	CARBON	390 JA	1/2W
R435	402 058 2300	WIRE WOUND	8.2 KA	6W
R436	401 014 5201	CARBON	15K JA	1/4W
R441	401 007 1203	CARBON	1K JB	1/2W
R442	401 061 3502	OXIDE-MT	3.3K JA	1W
R443	401 025 8703	CARBON	220K JA	1/6W
R451	401 026 4605	CARBON	33K JA	1/6W
R452	401 027 8602	CARBON	8.2K JA	1/6W
R453	401 026 9907	CARBON	4.7K JA	1/6W
R454	401 025 7409	CARBON	220 JA	1/6W
R455	401 026 4308	CARBON	3.3K JA	1/6W
R456	401 026 9907	CARBON	4.7K JA	1/6W
R457	401 026 4308	CARBON	3.3K JA	1/6W
R459	401 006 7602	CARBON	1 JA	1/2W
R460	401 009 0907	CARBON	270 JA	1/2W
R467	401 058 3706	OXIDE-MT	1K JA	1W
R481A	401 064 5305	OXIDE-MT	1.5 JA	2W
R485	401 060 1707	OXIDE-MT	22 JA	1W
R486	401 024 7400	CARBON	10K JA	1/6W
R502	402 057 8105	WIRE WOUND	3.9 KA	6W
	402 057 8204	WIRE WOUND	3.9 KA	6W
R511	401 027 2600	CARBON	5.6K JA	1/6W
R515	401 025 8208	CARBON	22K JA	1/6W
R517	401 027 8305	CARBON	820 JA	1/6W
R519	401 008 6009	CARBON	22 JA	1/2W
R520	401 000 5901	SOLID	120K KA	1/2W
R521	401 000 5901	SOLID	120K KA	1/2W
R522	401 014 5201	CARBON	15K JA	1/4W
R523	401 026 4308	CARBON	3.3K JA	1/6W
R524	401 069 1708	OXIDE-MT	68 JA	2W
R525	401 069 1708	OXIDE-MT	68 JA	2W
R526	401 017 1507	CARBON	2.7K GA	1/4W
⚠R531	402 000 8305	SOLID	5.6M KA	1/2W
⚠R532	402 000 8305	SOLID	5.6M KA	1/2W
R551	401 066 2104	OXIDE-MT	18K JA	2W
R552	401 012 8105	CARBON	100K JA	1/4W
R553	401 020 2003	CARBON	4.7K JA	1/4W
R554	401 014 6109	CARBON	150K JA	1/4W
R555	401 010 4307	CARBON	47K JA	1/2W
R556	401 025 8208	CARBON	22K JA	1/6W
R559	401 062 8803	OXIDE-MT	6.8 JA	1W
R560	401 059 3903	OXIDE-MT	1.5K JA	1W
R561	401 069 0404	OXIDE-MT	6.8 JA	2W
R562	401 069 0404	OXIDE-MT	6.8 JA	2W
R564	401 024 7400	CARBON	10K JA	1/6W
R565	401 026 7002	CARBON	3.9K JA	1/6W
R566	401 024 7400	CARBON	10K JA	1/6W
R567	401 013 5301	CARBON	1.2K JA	1/4W
R568	401 063 5306	OXIDE-MT	82 JA	1W
R569	401 024 7004	CARBON	1K JA	1/6W
R581	401 066 0506	OXIDE-MT	180 JA	2W
R585	401 027 2600	CARBON	5.6K JA	1/6W
R592	401 016 5803	CARBON	220K JA	1/4W
R593	401 024 7400	CARBON	10K JA	1/6W
R701	401 024 7400	CARBON	10K JA	1/6W
R702	401 024 7400	CARBON	10K JA	1/6W
R703	401 027 0309	CARBON	47K JA	1/6W
R704	401 027 5908	CARBON	68K JA	1/6W
R705	401 026 9907	CARBON	4.7K JA	1/6W
R706	401 024 7400	CARBON	10K JA	1/6W
R707	401 024 6700	CARBON	100 JA	1/6W
R708	401 027 2600	CARBON	5.6K JA	1/6W
R709	401 027 0309	CARBON	47K JA	1/6W
R710	401 024 7004	CARBON	1K JA	1/6W
R711	401 025 4200	CARBON	1.8K JA	1/6W
R712	401 027 8305	CARBON	820 JA	1/6W
R713	401 024 9701	CARBON	12K JA	1/6W
R715	401 026 4308	CARBON	3.3K JA	1/6W
R716	401 025 1902	CARBON	15K JA	1/6W
R717	401 027 5502	CARBON	6.8K JA	1/6W
R718	401 025 1902	CARBON	15K JA	1/6W
R721	401 025 1902	CARBON	15K JA	1/6W
R722	401 027 5908	CARBON	68K JA	1/6W
R723	401 026 1000	CARBON	2.7K JA	1/6W
R724	401 025 1902	CARBON	15K JA	1/6W
R726	401 024 7400	CARBON	10K JA	1/6W
R727	401 026 4605	CARBON	33K JA	1/6W
R728	401 027 2600	CARBON	5.6K JA	1/6W
R729	401 025 1902	CARBON	15K JA	1/6W
R730	401 025 8208	CARBON	22K JA	1/6W
R732	401 026 4308	CARBON	3.3K JA	1/6W
R733	401 026 4605	CARBON	33K JA	1/6W
R734	401 026 9907	CARBON	4.7K JA	1/6W
R735	401 025 8208	CARBON	22K JA	1/6W
R736	401 026 7408	CARBON	39K JA	1/6W
R737	401 024 7004	CARBON	1K JA	1/6W
R738	401 024 7400	CARBON	10K JA	1/6W
R739	401 025 1902	CARBON	15K JA	1/6W
R741	401 024 7400	CARBON	10K JA	1/6W
R742	401 027 5502	CARBON	6.8K JA	1/6W
R743	401 025 1308	CARBON	150 JA	1/6W
R744	401 026 9907	CARBON	4.7K JA	1/6W
R745	401 025 1308	CARBON	150 JA	1/6W
R746	401 026 9907	CARBON	4.7K JA	1/6W
R747	401 024 6700	CARBON	100 JA	1/6W
R748	401 024 6700	CARBON	100 JA	1/6W
R749	401 025 8208	CARBON	22K JA	1/6W
R750	401 025 8208	CARBON	22K JA	1/6W
R751	401 027 5502	CARBON	6.8K JA	1/6W
R752	401 024 9305	CARBON	1.2K JA	1/6W
R753	401 026 4308	CARBON	3.3K JA	1/6W
R754	401 027 8602	CARBON	8.2K JA	1/6W
R755	401 024 7400	CARBON	10K JA	1/6W
R756	401 026 9907	CARBON	4.7K JA	1/6W
R757	401 027 0309	CARBON	47K JA	1/6W
R758	401 025 1902	CARBON	15K JA	1/6W
R759	401 026 1307	CARBON	27K JA	1/6W
R760	401 019 1901	CARBON	3.9K JA	1/4W
R761	401 068 4700	OXIDE-MT	4.7K JA	2W
R762	401 025 8208	CARBON	22K JA	1/6W
R763	401 025 8208	CARBON	22K JA	1/6W
R764	401 024 7400	CARBON	10K JA	1/6W
R765	401 027 2600	CARBON	5.6K JA	1/6W
R767	401 024 6700	CARBON	100 JA	1/6W
R768	401 027 2600	CARBON	5.6K JA	1/6W
R769	401 025 8208	CARBON	22K JA	1/6W
R771	401 027 2600	CARBON	5.6K JA	1/6W
R772	401 024 7004	CARBON	1K JA	1/6W
R773	401 024 7004	CARBON	1K JA	1/6W
R779	401 024 7400	CARBON	10K JA	1/6W
R780	401 024 7707	CARBON	100K JA	1/6W
R781	401 026 9907	CARBON	4.7K JA	1/6W

Ref. No.	Part No.	Description
R782	401 025 8208	CARBON 22K JA 1/6W
R783	401 027 2600	CARBON 5.6K JA 1/6W
R784	401 027 2600	CARBON 5.6K JA 1/6W
R785	401 027 2600	CARBON 5.6K JA 1/6W
R787	401 025 8208	CARBON 22K JA 1/6W
R788	401 025 8208	CARBON 22K JA 1/6W
R790	401 024 7400	CARBON 10K JA 1/6W
R791	401 068 4700	OXIDE-MT 4.7K JA 2W
R792	401 025 1902	CARBON 15K JA 1/6W
R794	401 026 1307	CARBON 27K JA 1/6W
R796	401 026 6609	CARBON 390 JA 1/6W
R797	401 024 7400	CARBON 10K JA 1/6W
R798	401 025 1605	CARBON 1.5K JA 1/6W
R799	401 025 4606	CARBON 18K JA 1/6W
R801	401 026 6609	CARBON 390 JA 1/6W
R802	401 026 6609	CARBON 390 JA 1/6W
R803	401 026 6609	CARBON 390 JA 1/6W
R807	401 027 8602	CARBON 8.2K JA 1/6W
R808	401 026 3905	CARBON 330 JA 1/6W
R811	401 024 7707	CARBON 100K JA 1/6W
R812	401 025 4606	CARBON 18K JA 1/6W
R813	401 024 9701	CARBON 12K JA 1/6W
R814	401 026 1000	CARBON 2.7K JA 1/6W
R815	401 026 1000	CARBON 2.7K JA 1/6W
R816	401 024 7400	CARBON 10K JA 1/6W
R817	401 026 4605	CARBON 33K JA 1/6W
R818	401 027 8602	CARBON 8.2K JA 1/6W
R821	401 024 7707	CARBON 100K JA 1/6W
R822	401 025 4606	CARBON 18K JA 1/6W
R823	401 027 5502	CARBON 6.8K JA 1/6W
R824	401 026 9907	CARBON 4.7K JA 1/6W
R825	401 027 2600	CARBON 5.6K JA 1/6W
R826	401 024 7400	CARBON 10K JA 1/6W
R831	401 025 8208	CARBON 22K JA 1/6W
R832	401 026 1000	CARBON 2.7K JA 1/6W
R851	401 024 9701	CARBON 12K JA 1/6W
R852	401 024 9701	CARBON 12K JA 1/6W
R853	401 027 2303	CARBON 560 JA 1/6W
R854	401 024 7707	CARBON 100K JA 1/6W
R855	401 027 6608	CARBON 75 JA 1/6W
R856	401 027 6608	CARBON 75 JA 1/6W
R857	401 027 6608	CARBON 75 JA 1/6W
R858	401 026 1307	CARBON 27K JA 1/6W
R859	401 024 7400	CARBON 10K JA 1/6W
R864	401 027 6608	CARBON 75 JA 1/6W
R865	401 027 0309	CARBON 47K JA 1/6W
R866	401 027 5205	CARBON 680 JA 1/6W
R868	401 027 6608	CARBON 75 JA 1/6W
R871	401 027 6608	CARBON 75 JA 1/6W
R873	401 027 8602	CARBON 8.2K JA 1/6W
R877	401 024 6700	CARBON 100 JA 1/6W
R878	401 024 7004	CARBON 1K JA 1/6W
R881	401 024 7004	CARBON 1K JA 1/6W
R882	401 024 9305	CARBON 1.2K JA 1/6W
R883	401 026 4308	CARBON 3.3K JA 1/6W
R884	401 024 7004	CARBON 1K JA 1/6W
R891	401 025 1902	CARBON 15K JA 1/6W
R892	401 027 2600	CARBON 5.6K JA 1/6W
R894	401 025 1605	CARBON 1.5K JA 1/6W
R896	401 026 1000	CARBON 2.7K JA 1/6W
R897	401 024 9305	CARBON 1.2K JA 1/6W
VARIABLE RESISTER		
VR120	610 019 2584	VR B-10K
	610 019 3901	VR B-10K
VR401	610 019 2584	VR B-10K
	610 019 3901	VR B-10K
VR451	610 019 3826	VR B-100
VR551	610 019 3871	VR B-2K
	610 231 5219	VR B-2K

Ref. No.	Part No.	Description
TRANSFORMER		
T101	610 037 5727	S TRANS
T121	610 037 4522	S COIL
T431	610 000 1053	DRIVE TRANS
	610 000 1060	DRIVE TRANS
⚠T471	645 002 9486	TRANS, FLYBACK
⚠T511	610 221 0026	CONVERTER TRANS
	610 228 1552	CONVERTER TRANS
COIL		
LJ733	610 031 4504	PEAKING COIL
L103	610 031 4177	PEAKING COIL
L121	610 031 3873	PEAKING COIL 10UHK
L126	610 031 4290	PEAKING COIL 8.2UHK
L141	610 031 4290	PEAKING COIL 8.2UHK
L152	610 029 5544	PEAKING COIL
L154	610 029 5544	PEAKING COIL
L161	610 031 3019	PEAKING COIL 10UHK
L280	610 031 3873	PEAKING COIL 10UHK
L281	610 031 4252	PEAKING COIL 6.8UHK
L441	610 000 0612	LINEARITY COIL
	610 210 6183	LINEARITY COIL
L442	610 000 0292	COIL
	610 205 0080	COIL
L451	610 031 3354	PEAKING COIL
	610 210 3908	PEAKING COIL 33UHK
L452	610 032 4381	FILTER COIL
	610 032 4404	FILTER COIL
L501	610 031 5945	LINE FILTER
	610 031 5969	LINE FILTER
⚠L503	610 031 5952	LINE FILTER
L511	610 031 1589	INDUCTOR
L702	610 031 4214	PEAKING COIL
L703	610 031 4214	PEAKING COIL
L704	610 031 4030	PEAKING COIL
L705	610 031 4542	PEAKING COIL
L706	610 031 3873	PEAKING COIL 10UHK
DIODE		
D172	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D192	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D212	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D213	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D214	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D215	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D231	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D232	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D275	407 048 1202	ZENER DIODE EQA02-05E
D431	407 048 4906	ZENER DIODE EQA02-09A
	407 048 5101	ZENER DIODE EQA02-09B
D441	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
	407 064 6908	DIODE TVR4N(X)
D451	407 005 7308	DIODE EM01Z
	408 009 9003	DIODE BYD33D
D471	407 118 2207	ZENER DIODE 1Z75
D485	407 007 6606	DIODE ES1
	408 009 9305	DIODE BYD33G

Ref. No.	Part No.	Description
	407 013 1909	DIODE 1S1834
D486	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D503	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D504	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D505	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D506	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D514	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
⚠D515	407 105 8700	PHOTO COUPLE PC113B
	408 009 8407	PHOTO COUPLE CNY17F-30PT6
D516	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D517	407 007 6606	DIODE ES1
	407 007 6903	DIODE ES1Z
	408 009 9008	DIODE BYD33D
D518	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D519	407 048 4005	ZENER DIODE EQA02-08A
	407 048 4203	ZENER DIODE EQA02-08B
D551	407 007 7702	DIODE EU2A
	408 009 9206	DIODE BYD33J
	407 064 7004	DIODE 1S1835
D552	407 007 7504	DIODE EU1C
D553	407 007 6606	DIODE ES1
	408 009 9305	DIODE BYD33G
	407 013 1909	DIODE 1S1834
D554	407 007 7801	DIODE EU2Z
	408 009 9305	DIODE BYD33G
	407 013 1909	DIODE 1S1834
D555	407 007 7603	DIODE EU2
	407 007 7801	DIODE EU2Z
D561	407 048 2407	ZENER DIODE EQA02-06E
	407 048 2605	ZENER DIODE EQA02-06F
D562	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D564	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D565	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D566	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D583	407 048 1103	ZENER DIODE EQA02-05D
	407 048 1202	ZENER DIODE EQA02-05E
D591	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D593	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D701	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D702	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D703	409 013 0104	IC HZT33
	409 026 8005	IC L5630
	409 057 5103	IC UPC574J
D704	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D801	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D802	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D803	407 116 6504	LED SLP-181B-51
D804	407 055 7907	ZENER DIODE RD3.6EL
D810	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D811	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D812	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D851	407 075 9905	ZENER DIODE EQA03-11A
D875	407 075 9905	ZENER DIODE EQA03-11A
MISCELLANEUS		
⚠F501	423 022 3000	FUSE 250V 4A
	423 007 2103	FUSE 250V 4A
	423 021 8006	FUSE 250V 4A
F501-A1	645 000 5077	HOLDER, FUSE
F501-A2	645 000 5077	HOLDER, FUSE
A101	610 217 7077	UV VARACTOR TUNER
A701	610 224 5806	RC PREAMP 409-1L
K801	610 009 8275	SOCKET 21P
	610 218 6673	SOCKET 21P
	610 225 2361	SOCKET 21P
K801A	610 239 6522	SOCKET MTG BRKT-E5IE
K801A1	412 009 8107	SCR TAP2 FLG 3X10E
K801A2	412 009 8107	SCR TAP2 FLG 3X10E
PS501	408 003 6805	THERMISTOR 902P44E8 OMR14
	408 015 1904	THERMISTOR PA3A518B 270
	408 000 3906	TH PTH451A112BF180 2 70
SW220	610 011 2728	LEVER SWITCH
SW451	610 011 2728	LEVER SWITCH
⚠SW501	610 218 9162	PUSH SWITCH
SW702A	610 216 7962	PUSH SWITCH
SW705	610 011 4432	PUSH SWITCH
SW706	610 011 4432	PUSH SWITCH
SW707	610 011 4432	PUSH SWITCH
SW708	610 011 4432	PUSH SWITCH

Ref. No.	Part No.	Description
X101	421 004 7701	SAW F TSF5344
X126	610 012 0617	CERAMIC TRAP
X127	610 015 3011	CERAMIC FILTER
	645 000 4490	TRAP, CERAMIC
X152	610 012 0464	CERAMIC FILTER
X154	610 012 1621	CERAMIC FILTER
X201	645 000 2502	OSC, CRYSTAL 4.433619MHZ
	610 239 3347	CRYSTAL OSCILLATOR
X701	610 012 2857	CERAMIC OSCILLATOR
	610 212 8765	CERAMIC OSCILLATOR
	610 237 7156	CERAMIC OSCILLATOR KBR-4.

610 248 5462 CRT PCB ASSY E6KZP UE2781

TRANSISTER		
Q601	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
	405 066 9903	TR 2SC2688(1)-K
	405 067 0008	TR 2SC2688(1)-L
	405 067 0107	TR 2SC2688(1)-M
Q611	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
	405 066 9903	TR 2SC2688(1)-K
	405 067 0008	TR 2SC2688(1)-L
	405 067 0107	TR 2SC2688(1)-M
Q621	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
	405 066 9903	TR 2SC2688(1)-K
	405 067 0008	TR 2SC2688(1)-L
	405 067 0107	TR 2SC2688(1)-M
Q640	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-O(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-O
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-O
	405 006 1806	TR 2SA933S-R

CAPACITOR				
C601	403 075 4209	CERAMIC	820P K	50V
C611	403 075 4209	CERAMIC	820P K	50V
C621	403 075 4209	CERAMIC	820P K	50V
C631	403 077 2708	CERAMIC	1000P P	2K
RESISTER				
R601	401 018 2800	CARBON	330 JA	1/4W
R602	401 025 7805	CARBON	2.2K JA	1/6W
R603	401 024 7004	CARBON	1K JA	1/6W
R604	401 065 4604	OXIDE-MT	12K JA	2W
R605	401 002 0102	SOLID	3.3K KA	1/2W
R611	401 018 2800	CARBON	330 JA	1/4W
R612	401 025 7805	CARBON	2.2K JA	1/6W
R613	401 025 7805	CARBON	2.2K JA	1/6W
R614	401 065 4604	OXIDE-MT	12K JA	2W
R615	401 002 0102	SOLID	3.3K KA	1/2W
R621	401 018 2800	CARBON	330 JA	1/4W
R622	401 025 7805	CARBON	2.2K JA	1/6W
R623	401 025 4200	CARBON	1.8K JA	1/6W
R624	401 065 4604	OXIDE-MT	12K JA	2W
R625	401 002 0102	SOLID	3.3K KA	1/2W
R627	401 026 9600	CARBON	470 JA	1/6W
R631	401 001 7607	SOLID	270K KA	1/2W
R632	401 018 1605	CARBON	33 JA	1/4W
R641	401 026 9807	CARBON	4.7K JA	1/6W
R642	401 026 4308	CARBON	3.3K JA	1/6W

Ref. No.	Part No.	Description
VARIABLE RESISTER		
VR601	610 019 0825	VR
VR602	610 019 2881	VR 8CFRB-1K
VR611	610 019 0825	VR
VR612	610 019 2881	VR 8CFRB-1K
VR621	610 019 0825	VR
VR640	610 019 2881	VR 8CFRB-1K
MISCELLANEUS		
⚠K601	610 010 4181	CRT SOCKET

OUT OF CIRCUIT BOARD

PICTURE TUBE		
⚠Q901	414 007 7502	CRT A48EEV13X01
COIL		
⚠L901	610 223 4640	DEGAUSSING COIL
	610 227 7326	DEGAUSSING COIL
MISCELLANEUS		
KDY	610 013 9596	MINI CONNECTOR 5P-SOCKET
SP901	610 055 6492	SPEAKER
	610 218 1784	SPEAKER
WFO	610 246 9943	CORD, FOCUS
WSC	610 247 0031	CORD, SCREEN
⚠W901	610 011 7099	AC CORD
	610 011 9734	AC CORD
	610 011 9765	AC CORD
	610 238 3379	AC CORD
W902	610 210 5520	GROUNDING CONNECTOR

CHASSIS ELECTRICAL PARTS LIST Model C20EE13EX

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No.,Part No.,and descriptions. The main PCB unit will be supplied without tuner and flyback transformer. They should be ordered separately.

Read description in the Capacitor and Resister as follows:

CAPACITOR

CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10PF

A: Not specified	B: ± 0.1PF	C: ± 0.25PF
D: ± 0.5PF	F: ± 1PF	G: ± 2PF
R: +0.25-0PF	S: +0-0.25PF	E: +0-1PF

More than 10PF

A: Not specified	B: ± 0.1%	C: ± 0.25%
D: ± 0.5%	F: ± 1%	G: ± 2%
H: ± 3%	J: ± 5%	K: ± 10%
L: ± 15%	M: ± 20%	N: ± 30%
P: +100-0%	Q: +30-10%	T: +50-10%
U: +75-10%	V: +20-10%	W: +100-10%
X: +40-20%	Y: +150-10%	Z: +80-20%

- 100P — Rated value:P=pico farad,U=Micro farad

Material :

CERAMIC.....Ceramic
MT-PAPER.....Metallized Paper
POLYESTER.....Polyester
MT-POLYEST.....Metallized Polyester
POLYPRO.....Polypropylene
MT-POLYPRO.....Metallized Polypropylene
COMPO FILM.....Composite film
MT-COMPO.....Metallized Cmposite
STYRENE.....Styrene
TA-SOLID.....Tantalum Solid
AL-SOLID.....Aluminium Solid
ELECT.....Electrolytic
NP-ELECT.....Non-polarized Electrolytic
OS-SOLID.....Aluminium Solid with Organic Semiconductive Electrolytic
DL-ELECT.....Double Layered Electrolytic

RESISTER

CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols: A:General B:Non flammable Z:Low noise Other :Temperature coefficient
- J — Tolerance Symbols: A: ± 0.05% B: ± 0.1% C: ± 0.25% D: ± 0.5% F: ± 1% G: ± 2% J: ± 5% K: ± 10% M: ± 20% P:+5-15%
- 4.7K — Rated value, ohms: K:1,000, M:1,000,000

Material :

CARBON .....Carbon
MT-FILM.....Metal Film
OXIDE-MT .....Oxide Metal Film
SOLID .....Composition
MT-GLAZE .....Metal Glaze
WIRE WOUND .....Wire Wound
CERAMIC RES.....Ceramic
FUSIBLE RES .....Fusible

Ref. No.	Part No.	Description

610 248 8432 MAIN PCB ASSY E6KJP UE2779A

Refer to page 26-36 .

The difference between "610 248 8432 MAIN PCB ASSY E6KJP UE2779A" and "610 248 5103 MAIN PCB ASSY E6KZP UE2779" are as follows;

[610 248 8432 MAIN PCB ASSY E6KJP UE2779A]

INTEGRATED CIRCUIT				
IC701	410 175 9409	IC M37210M3-527SP		
CAPACITOR				
C747	403 028 1606	CERAMIC	56P J	50V
C748	403 028 1606	CERAMIC	56P J	50V
RESISTER				
R214	401 026 7408	CARBON	39K JA	1/6W
R215	401 025 4200	CARBON	1.8K JA	1/6W
R463	401 026 4308	CARBON	3.3K JA	1/6W
R485	401 059 1602	OXIDE-MT	15 JA	1W
R738	401 027 2600	CARBON	5.6K JA	1/6W
R797	401 025 8208	CARBON	22K JA	1/6W
R799	NOT USED.			
R817	NOT USED.			

610 248 5462 CRT PCB ASSY E6KZP UE2781

Refer to page36.

OUT OF CIRCUIT BOARD

Refer to page36.

CHASSIS ELECTRICAL PARTS LIST Model C20EE16EE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No.,Part No.,and descriptions. The main PCB unit will be supplied without tuner and flyback transformer. They should be ordered separately.

Read description in the Capacitor and Resister as follows:

CAPACITOR

CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10PF

A: Not specified	B: ± 0.1PF	C: ± 0.25PF
D: ± 0.5PF	F: ± 1PF	G: ± 2PF
R: +0.25-0PF	S: +0-0.25PF	E: +0-1PF

More than 10PF

A: Not specified	B: ± 0.1%	C: ± 0.25%
D: ± 0.5%	F: ± 1%	G: ± 2%
H: ± 3%	J: ± 5%	K: ± 10%
L: ± 15%	M: ± 20%	N: ± 30%
P: +100-0%	Q: +30-10%	T: +50-10%
U: +75-10%	V: +20-10%	W: +100-10%
X: +40-20%	Y: +150-10%	Z: +80-20%

- 100P — Rated value:P=pico farad,U=Micro farad

Material:

- CERAMIC.....Ceramic
- MT-PAPER.....Metallized Paper
- POLYESTER.....Polyester
- MT-POLYEST.....Metallized Polyester
- POLYPRO.....Polypropylene
- MT-POLYPRO.....Metallized Polypropylene
- COMPO FILM.....Composite film
- MT-COMPO.....Metallized Cmposite
- STYRENE.....Styrene
- TA-SOLID.....Tantalum Solid
- AL-SOLID.....Aluminium Solid
- ELECT.....Electrolytic
- NP-ELECT.....Non-polarized Electrolytic
- OS-SOLID.....Aluminium Solid with Organic Semiconductive Electrolytic
- DL-ELECT.....Double Layered Electrolytic

RESISTER

CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols: A:General B:Non flammable Z:Low noise Other :Temperature coefficient
- J — Tolerance Symbols:

A: ± 0.05%	B: ± 0.1%	C: ± 0.25%	D: ± 0.5%
F: ± 1%	G: ± 2%	J: ± 5%	K: ± 10%
M: ± 20%	P:+5-15%		

- 4.7K — Rated value, ohms: K:1,000, M:1,000,000

Material:

- CARBON .....Carbon
- MT-FILM.....Metal Film
- OXIDE-MT .....Oxide Metal Film
- SOLID .....Composition
- MT-GLAZE .....Metal Glaze
- WIRE WOUND .....Wire Wound
- CERAMIC RES.....Ceramic
- FUSIBLE RES .....Fusible

Ref. No.	Part No.	Description

610 248 8432 MAIN PCB ASSY E6KJP UE2779A

Refer to page 26-36 .

The difference between "610 248 8432 MAIN PCB ASSY E6KJP UE2779A" and "610 248 5103 MAIN PCB ASSY E6KZP UE2779" are as follows;

[610 248 8432 MAIN PCB ASSY E6KJP UE2779A]

INTEGRATED CIRCUIT			
IC701	410 175 9409	IC M37210M3-527SP	
CAPACITOR			
C747	403 028 1606	CERAMIC	56P J 50V
C748	403 028 1606	CERAMIC	56P J 50V
RESISTER			
R214	401 026 7408	CARBON	39K JA 1/6W
R215	401 025 4200	CARBON	1.8K JA 1/6W
R463	401 026 4308	CARBON	3.3K JA 1/6W
R485	401 059 1602	OXIDE-MT	15 JA 1W
R738	401 027 2600	CARBON	5.6K JA 1/6W
R797	401 025 8208	CARBON	22K JA 1/6W
R799	NOT USED.		
R817	NOT USED.		

610 248 5462 CRT PCB ASSY E6KZP UE2781

Refer to page 36.

OUT OF CIRCUIT BOARD

Refer to page 36.

Ref. No.	Part No.	Description
610 248 7442 TEXT PCB ASSY E6KJP UE2791		
TRANSISTER		
Q1001	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q1002	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q1003	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q1004	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q1006	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
INTEGRATED CIRCUIT		
IC1001	409 314 6706	IC SAA5254P/H
CAPACITOR		
C1001	403 067 5603	MT-COMPO 0.1U J 50V
C1002	403 134 9602	ELECT 47U M 16V
C1003	403 067 5603	MT-COMPO 0.1U J 50V
C1004	403 008 5105	CERAMIC 10P D 50V
C1005	403 012 4002	CERAMIC 15P J 50V
C1006	403 056 7106	POLYESTER 1000P J 50V
	403 056 7700	POLYESTER 1000P J 50V
C1007	403 067 5603	MT-COMPO 0.1U J 50V
C1008	403 067 5603	MT-COMPO 0.1U J 50V
C1009	403 067 5603	MT-COMPO 0.1U J 50V
C1010	403 067 5603	MT-COMPO 0.1U J 50V
C1016	403 023 9607	CERAMIC 39P J 50V
C1017	403 023 9607	CERAMIC 39P J 50V
RESISTER		
R1000	401 026 4308	CARBON 3.3K JA 1/6W
R1001	401 026 1307	CARBON 27K JA 1/6W
R1002	401 027 3003	CARBON 56K JA 1/6W
R1005	401 026 3905	CARBON 330 JA 1/6W
R1008	401 026 3905	CARBON 330 JA 1/6W
R1011	401 026 3905	CARBON 330 JA 1/6W
R1012	401 026 3905	CARBON 330 JA 1/6W
R1013	401 025 1605	CARBON 1.5K JA 1/6W
R1014	401 026 4308	CARBON 3.3K JA 1/6W
R1015	401 027 5908	CARBON 68K JA 1/6W
R1016	401 026 6609	CARBON 390 JA 1/6W
R1017	401 025 8208	CARBON 22K JA 1/6W
R1018	401 024 7400	CARBON 10K JA 1/6W
R1019	401 025 8208	CARBON 22K JA 1/6W
R1020	401 024 6700	CARBON 100 JA 1/6W
R1021	401 024 6700	CARBON 100 JA 1/6W
R1032	401 027 2600	CARBON 5.6K JA 1/6W
COIL		
L1002	610 031 4177	PEAKING COIL
MISCELLANEUS		
X1001	610 231 5875	CRYSTAL OSCILLATOR
	610 232 5546	CRYSTAL OSCILLATOR

CHASSIS ELECTRICAL PARTS LIST

Model C21EF13EE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No.,Part No.,and descriptions. The main PCB unit will be supplied without tuner and flyback transformer. They should be ordered separately.

Read description in the Capacitor and Resister as follows:

CAPACITOR

CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10PF

A: Not specified	B: ± 0.1PF	C: ± 0.25PF
D: ± 0.5PF	F: ± 1PF	G: ± 2PF
R: +0.25-0PF	S: +0-0.25PF	E: +0-1PF

More than 10PF

A: Not specified	B: ± 0.1%	C: ± 0.25%
D: ± 0.5%	F: ± 1%	G: ± 2%
H: ± 3%	J: ± 5%	K: ± 10%
L: ± 15%	M: ± 20%	N: ± 30%
P: +100-0%	Q: +30-10%	T: +50-10%
U: +75-10%	V: +20-10%	W: +100-10%
X: +40-20%	Y: +150-10%	Z: +80-20%

- 100P — Rated value:P=pico farad,U=Micro farad
- CERAMIC — Material:

CERAMIC.....Ceramic
MT-PAPER.....Metallized Paper
POLYESTER.....Polyester
MT-POLYEST.....Metallized Polyester
POLYPRO.....Polypropylene
MT-POLYPRO.....Metallized Polypropylene
COMPO FILM.....Composite film
MT-COMPO.....Metallized Cmposite
STYRENE.....Styrene
TA-SOLID.....Tantalum Solid
AL-SOLID.....Aluminium Solid
ELECT.....Electrolytic
NP-ELECT.....Non-polarized Electrolytic
OS-SOLID.....Aluminium Solid with Organic Semiconductive Electrolytic
DL-ELECT.....Double Layered Electrolytic

RESISTER

CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A:General B:Non flammable Z:Low noise
  Other :Temperature coefficient
- J — Tolerance Symbols:
  A: ± 0.05% B: ± 0.1% C: ± 0.25% D: ± 0.5%
  F: ± 1% G: ± 2% J: ± 5% K: ± 10%
  M: ± 20% P:+5-15%
- 4.7K — Rated value, ohms:
  K:1,000, M:1,000,000
- CARBON — Material:

CARBON .....Carbon
MT-FILM.....Metal Film
OXIDE-MT .....Oxide Metal Film
SOLID .....Composition
MT-GLAZE .....Metal Glaze
WIRE WOUND .....Wire Wound
CERAMIC RES.....Ceramic
FUSIBLE RES .....Fusible

Ref. No.	Part No.	Description	
610 248 5462 CRT PCB ASSY E6KZP UE2781			
TRANSISTER			
Q601	405 041 6507	TR 2SC2621-D-RA	
	405 041 6705	TR 2SC2621-E-RA	
	405 066 9903	TR 2SC2688(1)-K	
	405 067 0008	TR 2SC2688(1)-L	
	405 067 0107	TR 2SC2688(1)-M	
Q611	405 041 6507	TR 2SC2621-D-RA	
	405 041 6705	TR 2SC2621-E-RA	
	405 066 9903	TR 2SC2688(1)-K	
	405 067 0008	TR 2SC2688(1)-L	
	405 067 0107	TR 2SC2688(1)-M	
Q621	405 041 6507	TR 2SC2621-D-RA	
	405 041 6705	TR 2SC2621-E-RA	
	405 066 9903	TR 2SC2688(1)-K	
	405 067 0008	TR 2SC2688(1)-L	
	405 067 0107	TR 2SC2688(1)-M	
Q640	406 000 6804	TR 2SA1015-GR(SAN)	
	405 001 7407	TR 2SA1015-O(SAN)	
	405 001 7605	TR 2SA1015-Y(SAN)	
	405 004 3109	TR 2SA564A-O(CU)	
	405 004 3208	TR 2SA564A-R(CU)	
	405 004 4205	TR 2SA608-E-CTV-NP	
	405 004 4809	TR 2SA608-F-CTV-NP	
	405 006 1103	TR 2SA933-O	
	405 006 1202	TR 2SA933-R	
	405 006 1707	TR 2SA933S-O	
	405 006 1806	TR 2SA933S-R	
CAPACITOR			
C601	403 075 4209	CERAMIC	820P K 50V
C611	403 075 4209	CERAMIC	820P K 50V
C621	403 075 4209	CERAMIC	820P K 50V
C631	403 077 2708	CERAMIC	1000P P 2K
RESISTER			
R601	401 018 2800	CARBON	330 JA 1/4W
R602	401 025 7805	CARBON	2.2K JA 1/6W
R603	401 024 7004	CARBON	1K JA 1/6W
R604	401 065 4604	OXIDE-MT	12K JA 2W
R605	401 002 0102	SOLID	3.3K KA 1/2W
R611	401 018 2800	CARBON	330 JA 1/4W
R612	401 025 7805	CARBON	2.2K JA 1/6W
R613	401 025 7805	CARBON	2.2K JA 1/6W
R614	401 065 4604	OXIDE-MT	12K JA 2W
R615	401 002 0102	SOLID	3.3K KA 1/2W
R621	401 018 2800	CARBON	330 JA 1/4W
R622	401 025 7805	CARBON	2.2K JA 1/6W
R623	401 025 4200	CARBON	1.8K JA 1/6W
R624	401 065 4604	OXIDE-MT	12K JA 2W
R625	401 002 0102	SOLID	3.3K KA 1/2W
R627	401 026 9600	CARBON	470 JA 1/6W
R631	401 001 7607	SOLID	270K KA 1/2W
R632	401 018 1605	CARBON	33 JA 1/4W
R641	401 026 9907	CARBON	4.7K JA 1/6W
R642	401 026 4308	CARBON	3.3K JA 1/6W

Ref. No.	Part No.	Description
VARIABLE RESISTER		
VR601	610 019 0825	VR
VR602	610 019 2881	VR 8CFRB-1K
VR611	610 019 0825	VR
VR612	610 019 2881	VR 8CFRB-1K
VR621	610 019 0825	VR
VR640	610 019 2881	VR 8CFRB-1K
MISCELLANEUS		
⚠K601	610 010 4181	CRT SOCKET
610 248 8456 MAIN PCB ASSY E6BZP UE2798		
TRANSISTER		
Q101	405 013 3305	TR 2SC2216(SAN)
Q111	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q113	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q122	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q124	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q154	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S

Ref. No.	Part No.	Description
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q156	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q171	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q172	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q202	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA

Ref. No.	Part No.	Description
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q203	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q291	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q292	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q431	405 014 2406	TR 2SC2383-O(SAN)
	405 014 2505	TR 2SC2383-R(SAN)
Q432	405 022 6809	TR 2SD1651-CTV-YB
Q511	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q512	405 058 0208	TR 2SC3807-R-CTV-YA
Q513	405 022 8506	TR 2SD1710-CTV-YB
Q553	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR

Ref. No.	Part No.	Description
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q581	405 014 8408	TR 2SC2568(1)-K
	405 014 8507	TR 2SC2568(1)-L
	405 041 6507	TR 2SC2621-D-RA
	405 041 6705	TR 2SC2621-E-RA
Q701	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q702	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q703	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q704	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA

Ref. No.	Part No.	Description
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q705	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q706	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q707	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q708	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q709	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP

Ref. No.	Part No.	Description
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q711	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q713	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q714	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q715	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q716	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP

Ref. No.	Part No.	Description
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q718	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q721	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q722	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q723	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q781	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP

Ref. No.	Part No.	Description
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q801	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q852	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q853	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q855	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q856	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y

Ref. No.	Part No.	Description
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q857	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
Q858	406 000 6804	TR 2SA1015-GR(SAN)
	405 001 7407	TR 2SA1015-O(SAN)
	405 001 7605	TR 2SA1015-Y(SAN)
	405 004 3109	TR 2SA564A-Q(CU)
	405 004 3208	TR 2SA564A-R(CU)
	405 004 4205	TR 2SA608-E-CTV-NP
	405 004 4809	TR 2SA608-F-CTV-NP
	405 006 1103	TR 2SA933-Q
	405 006 1202	TR 2SA933-R
	405 006 1707	TR 2SA933S-Q
	405 006 1806	TR 2SA933S-R
Q891	405 011 7305	TR 2SC1740-Q
	405 011 7404	TR 2SC1740-R
	405 011 7503	TR 2SC1740-S
	405 011 8401	TR 2SC1740S-Q
	405 011 8500	TR 2SC1740S-R
	405 011 8609	TR 2SC1740S-S
	405 012 2002	TR 2SC1815-GR
	405 012 2101	TR 2SC1815-O
	405 012 2309	TR 2SC1815-Y
	405 019 1909	TR 2SC536-E-NP
	405 019 2708	TR 2SC536-F-NP
	405 019 3804	TR 2SC536-G-NP
	405 020 7501	TR 2SC945A-PA
	405 020 7709	TR 2SC945A-QA
	405 020 7907	TR 2SC945A-RA
INTEGRATED CIRCUIT		
IC101	409 307 2500	IC TDA8362/N3
IC171	409 073 1509	IC AN5265
IC270	409 291 0605	IC TDA4661/V2
IC280	409 299 4902	IC TDA8395/N1
IC290	409 051 3006	IC TC40538P
IC451	409 183 5008	IC LA7832
IC551	409 143 3402	IC AN78M12-LB
	409 026 9507	IC L78M12-RA
IC552	409 285 5203	IC L78M08-RA
IC701	410 173 1900	IC M37211M2-522SP
IC710	409 019 6209	IC LA7910
IC720	409 243 4200	IC MN1380-R
IC790	409 247 7702	IC ST24C02AB1
	409 257 7204	IC X24C02P
	409 281 8307	IC 24C02A/P
CAPACITOR		
C101	403 125 5606	ELECT 100U M 16V
C102	403 061 9607	POLYESTER 0.047U J 50V
	403 062 0207	POLYESTER 0.047U J 50V
C103	403 121 3507	ELECT 4.7U M 50V

Ref. No.	Part No.	Description
C104	403 121 2401	ELECT 22U M 16V
C105	403 067 5603	MT-COMPO 0.1U J 50V
C106	403 109 6407	ELECT 10U M 50V
C108	403 011 3808	CERAMIC 120P J 50V
C109	403 033 3602	CERAMIC 82P J 50V
C110	403 026 1103	CERAMIC 47P J 50V
C113	403 069 8305	CERAMIC 0.01U Z 50V
C114	403 069 8305	CERAMIC 0.01U Z 50V
C115	403 069 8305	CERAMIC 0.01U Z 50V
C117	403 134 9602	ELECT 47U M 16V
C119	403 010 5704	CERAMIC 12P J 50V
C121	403 067 7805	MT-COMPO 0.47U J 50V
C122	403 067 5603	MT-COMPO 0.1U J 50V
C123	403 109 6407	ELECT 10U M 50V
C126	403 061 2202	POLYESTER 3900P K 50V
	403 061 2707	POLYESTER 3900P K 50V
C128	403 121 3408	ELECT 2.2U M 50V
C129	403 028 1606	CERAMIC 56P J 50V
C130	403 069 8305	CERAMIC 0.01U Z 50V
C131	403 121 3507	ELECT 4.7U M 50V
C132	403 067 5603	MT-COMPO 0.1U J 50V
C134	403 069 0507	CERAMIC 1000P K 50V
C135	403 067 5603	MT-COMPO 0.1U J 50V
C136	403 134 5802	ELECT 470U M 16V
C137	403 067 5603	MT-COMPO 0.1U J 50V
C138	403 121 3408	ELECT 2.2U M 50V
C142	403 069 8305	CERAMIC 0.01U Z 50V
C143	403 028 2009	CERAMIC 56P J 50V
C144	403 067 5603	MT-COMPO 0.1U J 50V
C145	403 067 5603	MT-COMPO 0.1U J 50V
C152	403 013 1901	CERAMIC 150P J 50V
C154	403 013 1901	CERAMIC 150P J 50V
C162	403 069 8305	CERAMIC 0.01U Z 50V
C164	403 069 8305	CERAMIC 0.01U Z 50V
C172	403 067 7805	MT-COMPO 0.47U J 50V
C173	403 059 3600	POLYESTER 2200P K 50V
	403 059 4201	POLYESTER 2200P K 50V
C174	403 134 5901	ELECT 33U M 16V
C178	403 121 2401	ELECT 22U M 16V
C180	403 067 5603	MT-COMPO 0.1U J 50V
C181	403 045 1801	ELECT 1000U M 25V
C182	403 107 9905	ELECT 10U M 16V
C183	403 107 9905	ELECT 10U M 16V
C184	403 067 6709	MT-COMPO 0.22U J 50V
C185	403 111 8604	ELECT 470U M 25V
C186	403 069 8305	CERAMIC 0.01U Z 50V
C187	403 067 6709	MT-COMPO 0.22U J 50V
C188	403 121 3507	ELECT 4.7U M 50V
C192	403 134 6007	ELECT 330U M 16V
C200	403 014 0200	CERAMIC 18P J 50V
C202	403 067 5603	MT-COMPO 0.1U J 50V
C203	403 061 8105	POLYESTER 4700P K 50V
	403 061 8808	POLYESTER 4700P K 50V
C204	403 067 5603	MT-COMPO 0.1U J 50V
C205	403 067 5603	MT-COMPO 0.1U J 50V
C208	403 067 5603	MT-COMPO 0.1U J 50V
C209	403 067 5603	MT-COMPO 0.1U J 50V
C210	403 067 5603	MT-COMPO 0.1U J 50V
C215	403 067 7805	MT-COMPO 0.47U J 50V
C216	403 067 5603	MT-COMPO 0.1U J 50V
C217	403 121 3507	ELECT 4.7U M 50V
C221	403 067 5603	MT-COMPO 0.1U J 50V
C231	403 191 4503	NP-ELECT 0.47U M 160V
C232	403 138 1602	ELECT 1U M 100V
C270	403 059 5901	POLYESTER 0.022U K 50V
	403 059 6700	POLYESTER 0.022U K 50V
C271	403 069 0507	CERAMIC 1000P K 50V
C272	403 069 0507	CERAMIC 1000P K 50V
C275	403 107 9905	ELECT 10U M 16V
C280	403 067 6709	MT-COMPO 0.22U J 50V

Ref. No.	Part No.	Description
C281	403 067 5603	MT-COMPO 0.1U J 50V
C282	403 134 9602	ELECT 47U M 16V
C283	403 059 5901	POLYESTER 0.022U K 50V
	403 059 6700	POLYESTER 0.022U K 50V
C285	403 033 3602	CERAMIC 82P J 50V
C286	403 026 1103	CERAMIC 47P J 50V
C287	403 069 8305	CERAMIC 0.01U Z 50V
C288	403 030 5401	CERAMIC 68P J 50V
C291	403 069 8305	CERAMIC 0.01U Z 50V
C401	403 067 5603	MT-COMPO 0.1U J 50V
C402	403 062 0306	POLYESTER 0.047U K 50V
	403 062 1006	POLYESTER 0.047U K 50V
C403	403 061 8105	POLYESTER 4700P K 50V
	403 061 8808	POLYESTER 4700P K 50V
C404	403 086 2300	NP-ELECT 1U M 50V
C405	403 060 0506	POLYESTER 2700P K 50V
	403 060 1107	POLYESTER 2700P K 50V
C406	403 059 5901	POLYESTER 0.022U K 50V
	403 059 6700	POLYESTER 0.022U K 50V
C407	403 125 5606	ELECT 100U M 16V
C431	403 062 6902	POLYESTER 0.056U K 50V
	403 062 7404	POLYESTER 0.056U K 50V
C432	403 075 7101	CERAMIC 1000P K 500V
C433	403 076 3102	CERAMIC 3900P K 500V
C434	403 135 9403	ELECT 47U M 35V
C435	404 030 6702	MT-POLYPRO 8200P J 1.5K
	404 030 6801	MT-POLYPRO 8200P J 1.5K
C436	403 165 7202	CERAMIC 390P K 3K
	403 078 4701	CERAMIC 390P K 3K
C437	403 067 7805	MT-COMPO 0.47U J 50V
C441	403 082 8009	POLYPRO 0.2U J 200V
C442	403 082 7408	POLYPRO 0.15U J 200V
C443	403 134 1903	ELECT 4.7U M 160V
C444	403 165 7202	CERAMIC 390P K 3K
	403 078 4701	CERAMIC 390P K 3K
C445	403 076 1405	CERAMIC 2700P K 500V
C451	403 119 8002	ELECT 470U M 25V
C452	403 148 1807	ELECT 220U M 35V
C453	403 036 0905	CERAMIC 39P K 500V
C454	403 056 9506	POLYESTER 0.01U J 50V
C455	403 274 9203	POLYESTER 820P J 100V
C456	403 109 6407	ELECT 10U M 50V
C461	403 135 0004	ELECT 2200U M 25V
C463	403 178 4007	POLYESTER 0.1U J 100V
C485	403 109 5707	ELECT 220U M 25V
C501	404 047 3503	MT-POLYEST 0.1U M 125V
	404 047 3602	MT-POLYEST 0.1U M 125V
	404 007 9903	MT-COMPO 0.1U M 250V
	404 044 0901	MT-COMPO 0.1U M 250V
C502	404 047 3503	MT-POLYEST 0.1U M 125V
	404 047 3602	MT-POLYEST 0.1U M 125V
	404 007 9903	MT-COMPO 0.1U M 250V
	404 044 0901	MT-COMPO 0.1U M 250V
C503	403 076 7100	CERAMIC 1000P M 1K
C504	403 076 7100	CERAMIC 1000P M 1K
C505	403 076 7100	CERAMIC 1000P M 1K
C506	403 076 7100	CERAMIC 1000P M 1K
C507	404 047 1806	ELECT 100U M 400V
C513	403 061 8105	POLYESTER 4700P K 50V
	403 061 8808	POLYESTER 4700P K 50V
C514	403 067 5603	MT-COMPO 0.1U J 50V
C515	403 058 2406	POLYESTER 0.015U J 50V
	403 058 3007	POLYESTER 0.015U J 50V
C516	403 165 8407	CERAMIC 680P K 2K
	403 077 9103	CERAMIC 680P K 2K
C517	403 058 3205	POLYESTER 0.015U K 50V
	403 058 3809	POLYESTER 0.015U K 50V
C518	403 076 7100	CERAMIC 1000P M 1K
C533	404 008 2606	CERAMIC 1000P M 400V
	404 008 4303	CERAMIC 1000P M 400V
	404 047 8102	CERAMIC 1000P M 400V
C534	404 008 2606	CERAMIC 1000P M 400V
	404 008 4303	CERAMIC 1000P M 400V
	404 047 8102	CERAMIC 1000P M 400V
C551	403 165 8605	CERAMIC 470P K 2K
	403 077 7802	CERAMIC 470P K 2K
C552	403 167 8603	CERAMIC 220P K 2K
	403 077 5105	CERAMIC 220P K 2K
C553	403 165 6106	CERAMIC 470P K 1K
	403 077 0407	CERAMIC 470P K 1K
C554	403 165 6106	CERAMIC 470P K 1K
	403 077 0407	CERAMIC 470P K 1K
C555	403 165 6106	CERAMIC 470P K 1K
	403 077 0407	CERAMIC 470P K 1K
C561	404 042 4703	ELECT 220U M 160V
C562	403 055 5509	ELECT 22U M 200V
C563	403 108 0208	ELECT 330U M 35V
C564	403 148 0404	ELECT 1000U M 25V
C565	403 148 0404	ELECT 1000U M 25V
C571	403 148 0305	ELECT 470U M 16V
C572	403 148 0305	ELECT 470U M 16V
C582	403 135 8307	ELECT 470U M 50V
C583	403 107 9509	ELECT 100U M 10V
C701	403 056 7106	POLYESTER 1000P J 50V
C702	403 020 4803	CERAMIC 270P J 50V
C703	403 009 3100	CERAMIC 100P J 50V
C704	403 068 9006	CERAMIC 100P K 50V
C705	403 068 9006	CERAMIC 100P K 50V
C706	403 068 9006	CERAMIC 100P K 50V
C707	403 068 9006	CERAMIC 100P K 50V
C708	403 068 9006	CERAMIC 100P K 50V
C709	403 109 6308	ELECT 1U M 50V
C711	403 121 3507	ELECT 4.7U M 50V
C712	403 121 3507	ELECT 4.7U M 50V
C713	403 109 6407	ELECT 10U M 50V
C714	403 109 6407	ELECT 10U M 50V
C715	403 121 3507	ELECT 4.7U M 50V
C716	403 121 3507	ELECT 4.7U M 50V
C717	403 071 1707	CERAMIC 180P K 50V
C718	403 069 8305	CERAMIC 0.01U Z 50V
C719	403 073 3907	CERAMIC 3900P K 50V
C721	403 067 5603	MT-COMPO 0.1U J 50V
C722	403 134 9602	ELECT 47U M 16V
C723	403 026 0700	CERAMIC 47P J 50V
C724	403 026 0700	CERAMIC 47P J 50V
C725	403 069 8305	CERAMIC 0.01U Z 50V
C726	403 072 7708	CERAMIC 330P K 50V
C728	403 069 8305	CERAMIC 0.01U Z 50V
C729	403 107 9905	ELECT 10U M 16V
C731	403 067 5603	MT-COMPO 0.1U J 50V
C732	403 067 5603	MT-COMPO 0.1U J 50V
C741	403 067 5603	MT-COMPO 0.1U J 50V
C743	403 072 8200	CERAMIC 330P K 50V
C744	403 072 8200	CERAMIC 330P K 50V
C745	403 072 8200	CERAMIC 330P K 50V
C746	403 057 0403	POLYESTER 0.01U K 50V
	403 057 1004	POLYESTER 0.01U K 50V
C854	403 107 9905	ELECT 10U M 16V
C857	403 134 5901	ELECT 33U M 16V
C873	403 107 9905	ELECT 10U M 16V
C874	403 109 6308	ELECT 1U M 50V
RESISTER		
RB701	610 037 3273	RESISTOR BLOCK
RB703	645 003 0376	C-NETWORK
R101	401 025 7805	CARBON 2.2K JA 1/8W
R103	401 024 5700	CARBON 100 JA 1/8W
R104	401 027 2600	CARBON 5.6K JA 1/8W
R105	401 024 7004	CARBON 1K JA 1/8W
R106	401 025 7409	CARBON 220 JA 1/8W

Ref. No.	Part No.	Description
R107	401 026 0409	CARBON 27 JA 1/6W
R111	401 027 5205	CARBON 680 JA 1/6W
R116	401 027 8305	CARBON 820 JA 1/6W
R121	401 027 0309	CARBON 47K JA 1/6W
R124	401 027 5502	CARBON 6.8K JA 1/6W
R125	401 025 3807	CARBON 180 JA 1/6W
R126	401 027 2600	CARBON 5.6K JA 1/6W
R127	401 024 6700	CARBON 100 JA 1/6W
R128	401 027 2600	CARBON 5.6K JA 1/6W
R129	401 024 7400	CARBON 10K JA 1/6W
R131	401 026 9907	CARBON 4.7K JA 1/6W
R132	401 026 7408	CARBON 39K JA 1/6W
R133	401 024 9305	CARBON 1.2K JA 1/6W
R134	401 024 7004	CARBON 1K JA 1/6W
R137	401 016 2604	CARBON 220 JA 1/4W
R139	401 024 6700	CARBON 100 JA 1/6W
R150	401 024 7004	CARBON 1K JA 1/6W
R161	401 024 9701	CARBON 12K JA 1/6W
R163	401 027 5205	CARBON 680 JA 1/6W
R166	401 027 0309	CARBON 47K JA 1/6W
R169	401 027 9005	CARBON 82K JA 1/6W
R170	401 025 1902	CARBON 15K JA 1/6W
R171	401 024 7400	CARBON 10K JA 1/6W
R172	401 027 2303	CARBON 560 JA 1/6W
R173	401 025 1902	CARBON 15K JA 1/6W
R177	401 025 8208	CARBON 22K JA 1/6W
R178	401 024 7400	CARBON 10K JA 1/6W
R183	401 024 7004	CARBON 1K JA 1/6W
R184	401 026 4605	CARBON 33K JA 1/6W
R185	401 017 6205	CARBON 3.3 JA 1/4W
R190	401 026 6609	CARBON 390 JA 1/6W
R191	401 024 9701	CARBON 12K JA 1/6W
R192	401 026 9303	CARBON 47 JA 1/6W
R193	401 027 5205	CARBON 680 JA 1/6W
R198	401 026 9303	CARBON 47 JA 1/6W
R202	401 024 7707	CARBON 100K JA 1/6W
R203	401 024 6700	CARBON 100 JA 1/6W
R204	401 024 6700	CARBON 100 JA 1/6W
R205	401 024 6700	CARBON 100 JA 1/6W
R206	401 024 6700	CARBON 100 JA 1/6W
R207	401 024 6700	CARBON 100 JA 1/6W
R208	401 024 6700	CARBON 100 JA 1/6W
R213	401 024 7400	CARBON 10K JA 1/6W
R214	401 024 7400	CARBON 10K JA 1/6W
R215	401 025 4200	CARBON 1.8K JA 1/6W
R219	401 019 1000	CARBON 390 JA 1/4W
R223	401 027 0309	CARBON 47K JA 1/6W
R225	401 024 7400	CARBON 10K JA 1/6W
R226	401 026 9907	CARBON 4.7K JA 1/6W
R227	401 025 8703	CARBON 220K JA 1/6W
R230	401 016 4806	CARBON 22K JA 1/4W
R231	401 014 6109	CARBON 150K JA 1/4W
R232	401 024 7004	CARBON 1K JA 1/6W
R233	401 000 7509	SOLID 1.5K KA 1/2W
R235	401 026 7408	CARBON 39K JA 1/6W
R275	401 025 7409	CARBON 220 JA 1/6W
R282	401 026 1000	CARBON 2.7K JA 1/6W
R283	401 026 7002	CARBON 3.9K JA 1/6W
R291	401 025 7409	CARBON 220 JA 1/6W
R292	401 025 7409	CARBON 220 JA 1/6W
R293	401 024 7400	CARBON 10K JA 1/6W
R294	401 025 1605	CARBON 1.5K JA 1/6W
R308	401 025 8703	CARBON 220K JA 1/6W
R401	401 024 6700	CARBON 100 JA 1/6W
R402	401 024 8001	CARBON 1M JA 1/6W
R403	401 024 6700	CARBON 100 JA 1/6W
R404	401 025 8208	CARBON 22K JA 1/6W
R405	401 024 6700	CARBON 100 JA 1/6W
R406	401 026 7606	CARBON 390K JA 1/6W
R407	401 025 8208	CARBON 22K JA 1/6W
R408	401 024 6700	CARBON 100 JA 1/6W
R409	401 026 9907	CARBON 4.7K JA 1/6W
R410	401 025 8208	CARBON 22K JA 1/6W
R432	401 024 7004	CARBON 1K JA 1/6W
R433	401 007 1104	CARBON 1K JA 1/2W
R434	401 009 9305	CARBON 390 JA 1/2W
R435	402 058 2300	WIRE WOUND 8.2 KA 6W
R436	401 014 5201	CARBON 15K JA 1/4W
R441	401 007 1203	CARBON 1K JB 1/2W
R442	401 061 3502	OXIDE-MT 3.3K JA 1W
R443	401 025 8703	CARBON 220K JA 1/6W
R451	401 026 4605	CARBON 33K JA 1/6W
R452	401 027 2600	CARBON 5.6K JA 1/6W
R453	401 026 4308	CARBON 3.3K JA 1/6W
R454	401 024 9008	CARBON 120 JA 1/6W
R455	401 025 9809	CARBON 2.4K JA 1/6W
R456	401 026 9907	CARBON 4.7K JA 1/6W
R457	401 025 7805	CARBON 2.2K JA 1/6W
R459	401 006 7602	CARBON 1 JA 1/2W
R460	401 009 0907	CARBON 270 JA 1/2W
R467	401 058 3706	OXIDE-MT 1K JA 1W
R481A	401 064 5701	OXIDE-MT 1.8 JA 2W
R485	401 060 1707	OXIDE-MT 22 JA 1W
R486	401 024 7400	CARBON 10K JA 1/6W
R502	402 057 8105	WIRE WOUND 3.9 KA 6W
	402 057 8204	WIRE WOUND 3.9 KA 6W
R511	401 027 2600	CARBON 5.6K JA 1/6W
R515	401 025 8208	CARBON 22K JA 1/6W
R517	401 027 8305	CARBON 820 JA 1/6W
R519	401 008 6009	CARBON 22 JA 1/2W
R520	401 000 5901	SOLID 120K KA 1/2W
R521	401 000 5901	SOLID 120K KA 1/2W
R522	401 014 5201	CARBON 15K JA 1/4W
R523	401 026 4308	CARBON 3.3K JA 1/6W
R524	401 069 1708	OXIDE-MT 68 JA 2W
R525	401 069 1708	OXIDE-MT 68 JA 2W
R526	401 017 1507	CARBON 2.7K GA 1/4W
⚠R531	402 000 8305	SOLID 5.6M KA 1/2W
⚠R532	402 000 8305	SOLID 5.6M KA 1/2W
R552	401 012 8105	CARBON 100K JA 1/4W
R553	401 020 2003	CARBON 4.7K JA 1/4W
R554	401 014 6109	CARBON 150K JA 1/4W
R555	401 010 4307	CARBON 47K JA 1/2W
R556	401 025 8208	CARBON 22K JA 1/6W
R559	401 062 8803	OXIDE-MT 6.8 JA 1W
R561	401 069 0404	OXIDE-MT 6.8 JA 2W
R562	401 069 0404	OXIDE-MT 6.8 JA 2W
R568	401 063 5306	OXIDE-MT 82 JA 1W
R569	401 024 7004	CARBON 1K JA 1/6W
R582	401 060 4104	OXIDE-MT 2.2K JA 1W
R585	401 026 9600	CARBON 470 JA 1/6W
R592	401 016 5803	CARBON 220K JA 1/4W
R593	401 024 7400	CARBON 10K JA 1/6W
R701	401 024 7400	CARBON 10K JA 1/6W
R702	401 024 7400	CARBON 10K JA 1/6W
R703	401 027 0309	CARBON 47K JA 1/6W
R704	401 027 5908	CARBON 68K JA 1/6W
R705	401 026 9907	CARBON 4.7K JA 1/6W
R706	401 024 7400	CARBON 10K JA 1/6W
R707	401 024 6700	CARBON 100 JA 1/6W
R708	401 027 2600	CARBON 5.6K JA 1/6W
R709	401 027 0309	CARBON 47K JA 1/6W
R710	401 024 7004	CARBON 1K JA 1/6W
R711	401 025 4200	CARBON 1.8K JA 1/6W
R712	401 027 8305	CARBON 820 JA 1/6W
R713	401 024 9701	CARBON 12K JA 1/6W
R715	401 026 4308	CARBON 3.3K JA 1/6W
R716	401 025 1902	CARBON 15K JA 1/6W
R717	401 027 5502	CARBON 6.8K JA 1/6W
R718	401 025 1902	CARBON 15K JA 1/6W

Ref. No.	Part No.	Description
R721	401 025 1902	CARBON 15K JA 1/6W
R722	401 027 5908	CARBON 68K JA 1/6W
R723	401 026 1000	CARBON 2.7K JA 1/6W
R724	401 025 1902	CARBON 15K JA 1/6W
R726	401 024 7400	CARBON 10K JA 1/6W
R727	401 026 4605	CARBON 33K JA 1/6W
R728	401 027 2600	CARBON 5.6K JA 1/6W
R729	401 025 1902	CARBON 15K JA 1/6W
R730	401 025 8208	CARBON 22K JA 1/6W
R732	401 026 4308	CARBON 3.3K JA 1/6W
R733	401 026 4605	CARBON 33K JA 1/6W
R734	401 026 9907	CARBON 4.7K JA 1/6W
R735	401 025 8208	CARBON 22K JA 1/6W
R736	401 026 7408	CARBON 39K JA 1/6W
R737	401 024 7004	CARBON 1K JA 1/6W
R738	401 024 7400	CARBON 10K JA 1/6W
R739	401 025 1902	CARBON 15K JA 1/6W
R741	401 024 7400	CARBON 10K JA 1/6W
R742	401 027 5502	CARBON 6.8K JA 1/6W
R743	401 025 1308	CARBON 150 JA 1/6W
R744	401 026 9907	CARBON 4.7K JA 1/6W
R745	401 025 1308	CARBON 150 JA 1/6W
R746	401 026 9907	CARBON 4.7K JA 1/6W
R747	401 024 6700	CARBON 100 JA 1/6W
R748	401 024 6700	CARBON 100 JA 1/6W
R749	401 025 8208	CARBON 22K JA 1/6W
R750	401 025 8208	CARBON 22K JA 1/6W
R751	401 027 5502	CARBON 6.8K JA 1/6W
R752	401 024 9305	CARBON 1.2K JA 1/6W
R753	401 026 4308	CARBON 3.3K JA 1/6W
R754	401 027 8602	CARBON 8.2K JA 1/6W
R755	401 024 7400	CARBON 10K JA 1/6W
R756	401 026 9907	CARBON 4.7K JA 1/6W
R757	401 027 0309	CARBON 47K JA 1/6W
R758	401 025 1902	CARBON 15K JA 1/6W
R759	401 026 1307	CARBON 27K JA 1/6W
R760	401 019 1901	CARBON 3.9K JA 1/4W
R761	401 068 4700	OXIDE-MT 4.7K JA 2W
R762	401 025 8208	CARBON 22K JA 1/6W
R763	401 025 8208	CARBON 22K JA 1/6W
R764	401 024 7400	CARBON 10K JA 1/6W
R765	401 027 2600	CARBON 5.6K JA 1/6W
R767	401 024 6700	CARBON 100 JA 1/6W
R768	401 027 2600	CARBON 5.6K JA 1/6W
R769	401 025 8208	CARBON 22K JA 1/6W
R771	401 027 2600	CARBON 5.6K JA 1/6W
R772	401 024 7004	CARBON 1K JA 1/6W
R773	401 024 7004	CARBON 1K JA 1/6W
R779	401 024 7400	CARBON 10K JA 1/6W
R780	401 024 7707	CARBON 100K JA 1/6W
R781	401 026 9907	CARBON 4.7K JA 1/6W
R782	401 025 8208	CARBON 22K JA 1/6W
R783	401 027 2600	CARBON 5.6K JA 1/6W
R784	401 027 2600	CARBON 5.6K JA 1/6W
R785	401 027 2600	CARBON 5.6K JA 1/6W
R787	401 025 8208	CARBON 22K JA 1/6W
R788	401 025 8208	CARBON 22K JA 1/6W
R790	401 024 7400	CARBON 10K JA 1/6W
R791	401 068 4700	OXIDE-MT 4.7K JA 2W
R792	401 025 1902	CARBON 15K JA 1/6W
R794	401 026 1307	CARBON 27K JA 1/6W
R796	401 026 6609	CARBON 390 JA 1/6W
R797	401 024 7400	CARBON 10K JA 1/6W
R798	401 025 1605	CARBON 1.5K JA 1/6W
R799	401 025 4606	CARBON 18K JA 1/6W
R801	401 026 6609	CARBON 390 JA 1/6W
R802	401 026 6609	CARBON 390 JA 1/6W
R803	401 026 6609	CARBON 390 JA 1/6W
R807	401 027 8602	CARBON 8.2K JA 1/6W
R808	401 026 3905	CARBON 330 JA 1/6W

Ref. No.	Part No.	Description
R811	401 024 7707	CARBON 100K JA 1/6W
R812	401 025 4606	CARBON 18K JA 1/6W
R813	401 024 9701	CARBON 12K JA 1/6W
R814	401 026 1000	CARBON 2.7K JA 1/6W
R815	401 026 1000	CARBON 2.7K JA 1/6W
R816	401 024 7400	CARBON 10K JA 1/6W
R817	401 026 4605	CARBON 33K JA 1/6W
R818	401 027 8602	CARBON 8.2K JA 1/6W
R821	401 024 7707	CARBON 100K JA 1/6W
R822	401 025 4606	CARBON 18K JA 1/6W
R823	401 027 5502	CARBON 6.8K JA 1/6W
R824	401 026 9907	CARBON 4.7K JA 1/6W
R825	401 027 2600	CARBON 5.6K JA 1/6W
R826	401 024 7400	CARBON 10K JA 1/6W
R831	401 025 8208	CARBON 22K JA 1/6W
R832	401 026 1000	CARBON 2.7K JA 1/6W
R851	401 024 9701	CARBON 12K JA 1/6W
R852	401 024 9701	CARBON 12K JA 1/6W
R853	401 027 2303	CARBON 560 JA 1/6W
R854	401 024 7707	CARBON 100K JA 1/6W
R855	401 027 6608	CARBON 75 JA 1/6W
R856	401 027 6608	CARBON 75 JA 1/6W
R857	401 027 6608	CARBON 75 JA 1/6W
R858	401 026 1307	CARBON 27K JA 1/6W
R859	401 024 7400	CARBON 10K JA 1/6W
R864	401 027 6608	CARBON 75 JA 1/6W
R865	401 027 0309	CARBON 47K JA 1/6W
R866	401 027 5205	CARBON 680 JA 1/6W
R868	401 027 6608	CARBON 75 JA 1/6W
R871	401 027 6608	CARBON 75 JA 1/6W
R873	401 027 8602	CARBON 8.2K JA 1/6W
R877	401 024 6700	CARBON 100 JA 1/6W
R878	401 024 7004	CARBON 1K JA 1/6W
R881	401 024 7004	CARBON 1K JA 1/6W
R882	401 024 9305	CARBON 1.2K JA 1/6W
R883	401 026 4308	CARBON 3.3K JA 1/6W
R884	401 024 7004	CARBON 1K JA 1/6W
R891	401 025 1902	CARBON 15K JA 1/6W
R892	401 027 2600	CARBON 5.6K JA 1/6W
R894	401 025 1605	CARBON 1.5K JA 1/6W
R896	401 026 1000	CARBON 2.7K JA 1/6W
R897	401 024 9305	CARBON 1.2K JA 1/6W

VARIABLE RESISTER

VR120	610 019 2584	VR B-10K
	610 019 3901	VR B-10K
VR401	610 019 2584	VR B-10K
	610 019 3901	VR B-10K
VR451	610 019 3826	VR B-100
VR551	610 019 3871	VR B-2K
	610 231 5219	VR B-2K

TRANSFORMER

T101	610 037 5727	S TRANS
T121	610 037 4522	S COIL
T431	610 000 1053	DRIVE TRANS
	610 000 1060	DRIVE TRANS
⚠T471	645 002 9486	TRANS, FLYBACK
⚠T511	610 221 0026	CONVERTER TRANS
	610 228 1552	CONVERTER TRANS
⚠T581	610 033 3765	POWER TRANS

COIL

LJ733	610 031 4504	PEAKING COIL
L103	610 031 4177	PEAKING COIL
L121	610 031 3873	PEAKING COIL 10UHK
L126	610 031 4290	PEAKING COIL 8.2UHK
L141	610 031 4290	PEAKING COIL 8.2UHK
L152	610 029 5544	PEAKING COIL
L154	610 029 5544	PEAKING COIL

Ref. No.	Part No.	Description
L161	610 031 3019	PEAKING COIL 10UHK
L280	610 031 3873	PEAKING COIL 10UHK
L281	610 031 4252	PEAKING COIL 6.8UHK
L441	610 000 0605	LINEARITY COIL
	610 210 8071	LINEARITY COIL
L442	610 000 0292	COIL
	610 205 0080	COIL
L451	610 031 3354	PEAKING COIL
	610 210 3908	PEAKING COIL 33UHK
L452	610 032 4381	FILTER COIL
	610 032 4404	FILTER COIL
L501	610 031 5945	LINE FILTER
	610 031 5969	LINE FILTER
⚠L503	610 031 5952	LINE FILTER
L511	610 031 1589	INDUCTOR
L702	610 031 4214	PEAKING COIL
L703	610 031 4214	PEAKING COIL
L704	610 031 4030	PEAKING COIL
L705	610 031 4542	PEAKING COIL
L706	610 031 3873	PEAKING COIL 10UHK
DIODE		
D172	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D192	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D212	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D213	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D214	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D215	407 075 9905	ZENER DIODE EQA03-11A
	407 158 3400	ZENER DIODE UZ-11BSC
D231	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D232	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D275	407 048 1202	ZENER DIODE EQA02-05E
D431	407 048 4906	ZENER DIODE EQA02-09A
	407 048 5101	ZENER DIODE EQA02-09B
D441	407 006 6300	DIODE ERC05-10B
	407 009 6901	DIODE RM11C
	407 064 6908	DIODE TVR4N(X)
D451	407 005 7308	DIODE EM01Z
	408 009 9008	DIODE BYD33D
D471	407 118 2207	ZENER DIODE 1Z75
D485	407 007 6606	DIODE ES1
	408 009 9305	DIODE BYD33G
	407 013 1909	DIODE 1S1834
D486	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D503	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D504	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D505	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D506	407 064 6908	DIODE TVR4N(X)
	407 009 6901	DIODE RM11C
	407 006 6300	DIODE ERC05-10B
D514	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
⚠D515	407 105 8700	PHOTO COUPLE PC113B
	408 009 8407	PHOTO COUPLE CNY17F-30PT6
D516	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D517	407 007 6606	DIODE ES1
	407 007 6903	DIODE ES1Z
	408 009 9008	DIODE BYD33D
D518	407 005 4505	DIODE DS442X
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D519	407 048 4005	ZENER DIODE EQA02-08A
	407 048 4203	ZENER DIODE EQA02-08B
D551	407 007 7702	DIODE EU2A
	408 009 9206	DIODE BYD33J
	407 064 7004	DIODE 1S1835
D552	407 007 7504	DIODE EU1C
D553	407 007 6606	DIODE ES1
	408 009 9305	DIODE BYD33G
	407 013 1909	DIODE 1S1834
D554	407 007 7801	DIODE EU2Z
	408 009 9305	DIODE BYD33G
	407 013 1909	DIODE 1S1834
D555	407 007 7603	DIODE EU2
	407 007 7801	DIODE EU2Z
D561	407 048 2407	ZENER DIODE EQA02-06E
	407 048 2605	ZENER DIODE EQA02-06F
D581	407 048 2001	ZENER DIODE EQA02-06B
D582	407 005 7308	DIODE EM01Z
D584	408 008 2406	DIODE 1N4148
	407 013 1008	DIODE 1S1553
	407 013 4306	DIODE 1S2076A
	407 013 6508	DIODE 1S2471
D591	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D592	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D593	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D701	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D702	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D703	409 013 0104	IC HZT33
	409 026 8005	IC L5630
	409 057 5103	IC UPC574J
D704	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D801	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D802	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148

Ref. No.	Part No.	Description
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D803	407 116 6504	LED SLP-181B-51
D804	407 055 7907	ZENER DIODE RD3.6EL
D810	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D811	407 007 9904	DIODE GMA01
	407 012 4406	DIODE 1SS133
	407 012 5809	DIODE 1SS176
D812	407 005 4505	DIODE DS442X
	408 008 2406	DIODE 1N4148
	407 013 1206	DIODE 1S1555
	407 013 4207	DIODE 1S2076
	407 013 7109	DIODE 1S2473
D851	407 075 9905	ZENER DIODE EQA03-11A
D875	407 075 9905	ZENER DIODE EQA03-11A
MISCELLANEUS		
⚠F501	423 022 3000	FUSE 250V 4A
	423 007 2103	FUSE 250V 4A
	423 021 8006	FUSE 250V 4A
F501-A1	645 000 5077	HOLDER, FUSE
F501-A2	645 000 5077	HOLDER, FUSE
A101	610 217 7077	UV VARACTOR TUNER
A701	610 224 5806	RC PREAMP 409-1L
K801	610 009 8275	SOCKET 21P
	610 218 6673	SOCKET 21P
	610 225 2361	SOCKET 21P
K801A	610 239 6522	SOCKET MTG BRKT-E5HE
K801A1	412 009 8107	SCR TAP2 FLG 3X10E
K801A2	412 009 8107	SCR TAP2 FLG 3X10E
PS501	408 003 6805	THERMISTOR 902P44E180MR14
	408 015 1904	THERMISTOR PA3A5180B270
	408 000 3906	TH PTH451A112BF180M270
SW220	610 011 2728	LEVER SWITCH
SW451	610 011 2728	LEVER SWITCH
⚠SW501	610 218 9162	PUSH SWITCH
SW702A	610 216 7962	PUSH SWITCH
SW705	610 011 4432	PUSH SWITCH
SW706	610 011 4432	PUSH SWITCH
SW707	610 011 4432	PUSH SWITCH
SW708	610 011 4432	PUSH SWITCH
X101	421 004 7701	SAW F TSF5344
X126	610 012 0617	CERAMIC TRAP
X127	610 015 3011	CERAMIC FILTER
	645 000 4490	TRAP, CERAMIC
X152	610 012 0464	CERAMIC FILTER
X154	610 012 1621	CERAMIC FILTER
X201	645 000 2502	OSC, CRYSTAL 4.433619MHZ
	610 239 3347	CRYSTAL OSCILLATOR
X701	610 012 2857	CERAMIC OSCILLATOR
	610 212 8765	CERAMIC OSCILLATOR
	610 237 7156	CERAMIC OSCILLATOR KBR-4.
OUT OF CIRCUIT BOARD		
PICTURE TUBE		
⚠Q901	414 007 7304	CRT A51EBV13X01
COIL		
⚠L901	610 224 4243	DEGAUSSING COIL
	610 227 7289	DEGAUSSING COIL
MISCELLANEUS		
KDY	610 013 9596	MINI CONNECTOR 5P-SOCKET
SP901	610 055 5471	SPEAKER
	610 217 8845	SPEAKER
WFO	610 246 9943	CORD, FOCUS
WSC	610 247 0031	CORD, SCREEN
⚠W901	610 011 7099	AC CORD
	610 011 9734	AC CORD
	610 011 9765	AC CORD
	610 238 3379	AC CORD
W902	610 024 2531	GROUNDING CONNECTOR

CHASSIS ELECTRICAL PARTS LIST Model C21EF13EX

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No.,Part No.,and descriptions. The main PCB unit will be supplied without tuner and flyback transformer. They should be ordered separately.

Read description in the Capacitor and Resister as follows:

CAPACITOR

CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10PF

A: Not specified	B: ± 0.1PF	C: ± 0.25PF
D: ± 0.5PF	F: ± 1PF	G: ± 2PF
R: +0.25-0PF	S: +0-0.25PF	E: +0-1PF

More than 10PF

A: Not specified	B: ± 0.1%	C: ± 0.25%
D: ± 0.5%	F: ± 1%	G: ± 2%
H: ± 3%	J: ± 5%	K: ± 10%
L: ± 15%	M: ± 20%	N: ± 30%
P: +100-0%	Q: +30-10%	T: +50-10%
U: +75-10%	V: +20-10%	W: +100-10%
X: +40-20%	Y: +150-10%	Z: +80-20%

- 100P — Rated value:P=pico farad,U=Micro farad

Material :

- CERAMIC.....Ceramic
- MT-PAPER.....Metallized Paper
- POLYESTER.....Polyester
- MT-POLYEST.....Metallized Polyester
- POLYPRO.....Polypropylene
- MT-POLYPRO.....Metallized Polypropylene
- COMPO FILM.....Composite film
- MT-COMPO.....Metallized Cmposite
- STYRENE.....Styrene
- TA-SOLID.....Tantalum Solid
- AL-SOLID.....Aluminium Solid
- ELECT.....Electrolytic
- NP-ELECT.....Non-polarized Electrolytic
- OS-SOLID.....Aluminium Solid with Organic Semiconductive Electrolytic
- DL-ELECT.....Double Layered Electrolytic

RESISTER

CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols: A:General B:Non flammable Z:Low noise Other :Temperature coefficient
- J — Tolerance Symbols:

A: ± 0.05%	B: ± 0.1%	C: ± 0.25%	D: ± 0.5%
F: ± 1%	G: ± 2%	J: ± 5%	K: ± 10%
M: ± 20%	P:+5-15%		

- 4.7K — Rated value, ohms: K:1,000, M:1,000,000

Material :

- CARBON .....Carbon
- MT-FILM.....Metal Film
- OXIDE-MT .....Oxide Metal Film
- SOLID .....Composition
- MT-GLAZE .....Metal Glaze
- WIRE WOUND .....Wire Wound
- CERAMIC RES.....Ceramic
- FUSIBLE RES .....Fusible

Ref. No.	Part No.	Description

610 248 8463 MAIN PCB ASSY E6BJP UE2798A

Refer to page 41-50 .

The difference between "610 248 8463 MAIN PCB ASSY E6BJP UE2798A" and "610 248 8456 MAIN PCB ASSY E6BZP UE2798" are as follows;

[610 248 8463 MAIN PCB ASSY E6BJP UE2798A]

INTEGRATED CIRCUIT				
IC701	410 175 9409	IC M37210M3-527SP		
CAPACITOR				
C747	403 028 1606	CERAMIC	56P J	50V
C748	403 028 1606	CERAMIC	56P J	50V
RESISTER				
R214	401 026 7408	CARBON	39K JA	1/6W
R215	401 025 4200	CARBON	1.8K JA	1/6W
R463	401 026 4308	CARBON	3.3K JA	1/6W
R485	401 059 1602	OXIDE-MT	15 JA	1W
R738	401 027 2600	CARBON	5.6K JA	1/6W
R797	401 025 8208	CARBON	22K JA	1/6W
R799	NOT USED.			
R817	NOT USED.			

610 248 5462 CRT PCB ASSY E6KZP UE2781

Refer to page 40-41.

OUT OF CIRCUIT BOARD

Refer to page 50.

CHASSIS ELECTRICAL PARTS LIST

Model C21EF16EE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No.,Part No.,and descriptions. The main PCB unit will be supplied without tuner and flyback transformer. They should be ordered separately.

Read description in the Capacitor and Resister as follows:

CAPACITOR

CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10PF

A: Not specified	B: ± 0.1PF	C: ± 0.25PF
D: ± 0.5PF	F: ± 1PF	G: ± 2PF
R: +0.25-0PF	S: +0-0.25PF	E: +0-1PF

More than 10PF

A: Not specified	B: ± 0.1%	C: ± 0.25%
D: ± 0.5%	F: ± 1%	G: ± 2%
H: ± 3%	J: ± 5%	K: ± 10%
L: ± 15%	M: ± 20%	N: ± 30%
P: +100-0%	Q: +30-10%	T: +50-10%
U: +75-10%	V: +20-10%	W: +100-10%
X: +40-20%	Y: +150-10%	Z: +80-20%

- 100P — Rated value:P=pico farad,U=Micro farad

Material :

- CERAMIC.....Ceramic
- MT-PAPER.....Metallized Paper
- POLYESTER.....Polyester
- MT-POLYEST.....Metallized Polyester
- POLYPRO.....Polypropylene
- MT-POLYPRO.....Metallized Polypropylene
- COMPO FILM.....Composite film
- MT-COMPO.....Metallized Cmposite
- STYRENE.....Styrene
- TA-SOLID.....Tantalum Solid
- AL-SOLID.....Aluminium Solid
- ELECT.....Electrolytic
- NP-ELECT.....Non-polarized Electrolytic
- OS-SOLID.....Aluminium Solid with Organic Semiconductive Electrolytic
- DL-ELECT.....Double Layered Electrolytic

RESISTER

CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols: A:General B:Non flammable Z:Low noise Other :Temperature coefficient
- J — Tolerance Symbols: A: ± 0.05% B: ± 0.1% C: ± 0.25% D: ± 0.5% F: ± 1% G: ± 2% J: ± 5% K: ± 10% M: ± 20% P:+5-15%
- 4.7K — Rated value, ohms: K:1,000, M:1,000,000

Material :

- CARBON .....Carbon
- MT-FILM.....Metal Film
- OXIDE-MT .....Oxide Metal Film
- SOLID .....Composition
- MT-GLAZE .....Metal Glaze
- WIRE WOUND .....Wire Wound
- CERAMIC RES.....Ceramic
- FUSIBLE RES .....Fusible

Ref. No.	Part No.	Description

610 248 8463 MAIN PCB ASSY E6BJP UE2798A

Refer to page 41-50 .

The difference between "610 248 8463 MAIN PCB ASSY E6BJP UE2798A" and "610 248 8456 MAIN PCB ASSY E6BZP UE2798" are as follows;

[610 248 8463 MAIN PCB ASSY E6BJP UE2798A]

INTEGRATED CIRCUIT				
IC701	410 175 9409	IC M37210M3-527SP		
CAPACITOR				
C747	403 028 1606	CERAMIC	56P J	50V
C748	403 028 1606	CERAMIC	56P J	50V
RESISTER				
R214	401 026 7408	CARBON	39K JA	1/6W
R215	401 025 4200	CARBON	1.8K JA	1/6W
R463	401 026 4308	CARBON	3.3K JA	1/6W
R485	401 059 1602	OXIDE-MT	15 JA	1W
R738	401 027 2600	CARBON	5.6K JA	1/6W
R797	401 025 8208	CARBON	22K JA	1/6W
R799	NOT USED.			
R817	NOT USED.			

610 248 7442 TEXT PCB ASSY E6KJP UE2791

Refer to page 39 .

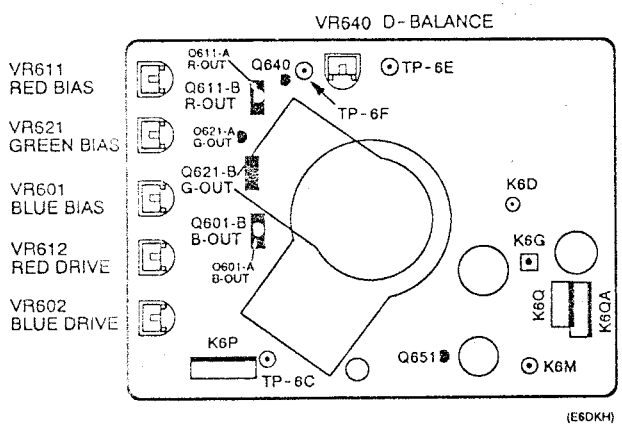
610 248 5462 CRT PCB ASSY E6KZP UE2781

Refer to page 40-41.

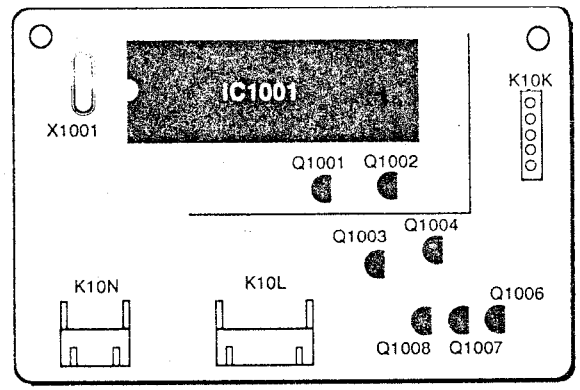
OUT OF CIRCUIT BOARD

Refer to page 50.

CRT UNIT

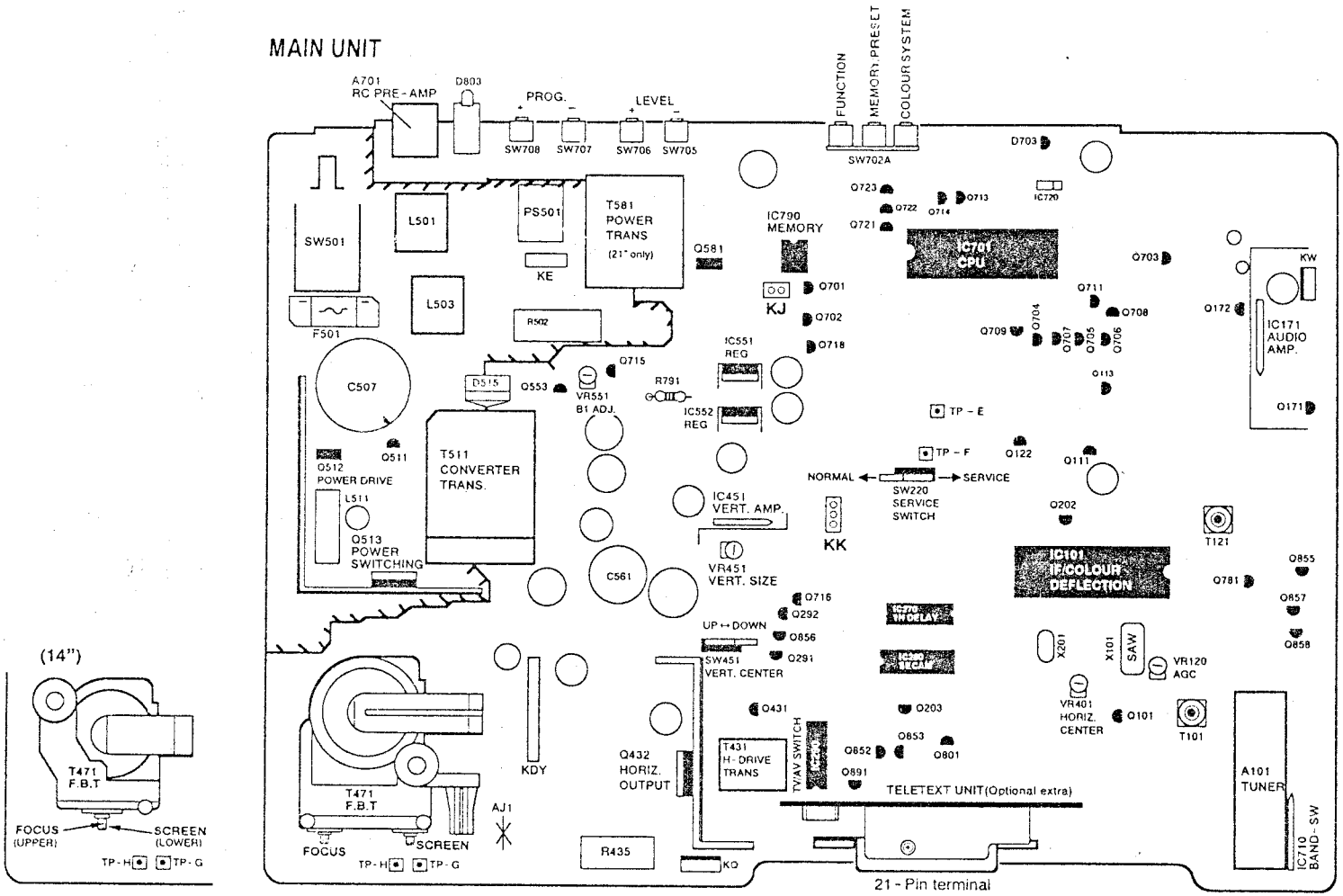


TELETEXT UNIT (Optional extra)

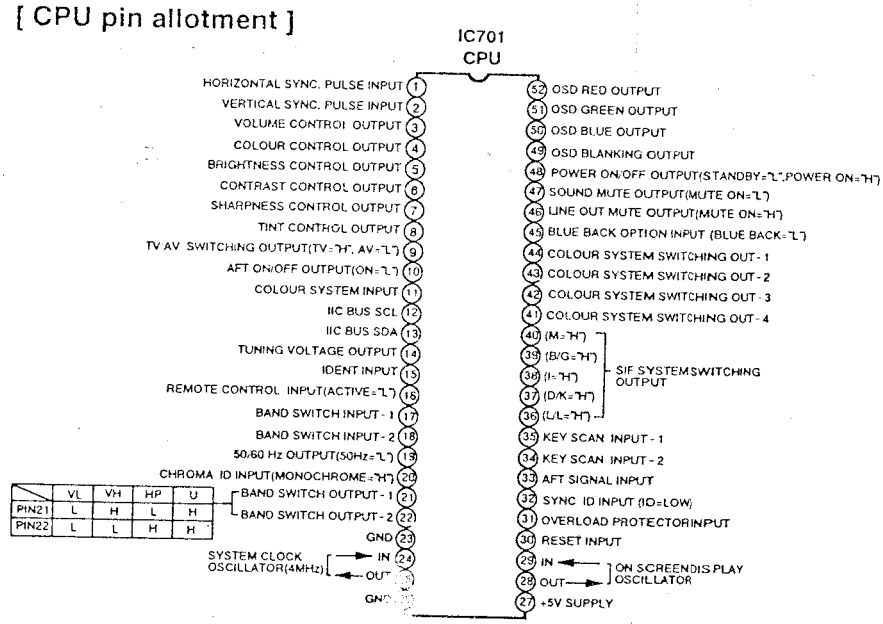


E6PKP
E6BKP
E6KKP
E6PKH
E6DKH
E6DKP
E6SKP

COMPONENT LOCATION



[CPU pin allotment]


IC701
CPU
HORIZONTAL SYNC. PULSE INPUT 1
VERTICAL SYNC. PULSE INPUT 2
VOLUME CONTROl OUTPUT 3
COLOUR CONTROL OUTPUT 4
BRIGHTNESS CONTROL OUTPUT 5
CONTRAST CONTROL OUTPUT 6
SHARPNESS CONTROL OUTPUT 7
TINT CONTROL OUTPUT 8
TV AV SWITCHING OUTPUT(TV="H", AV="L") 9
AFT ON/OFF OUTPUT(ON="L") 10
COLOUR SYSTEM INPUT 11
IIC BUS SCL 12
IIC BUS SDA 13
TUNING VOLTAGE OUTPUT 14
IDENT INPUT 15
REMOTE CONTROL INPUT(ACTIVE="L") 16
BAND SWITCH INPUT - 1 17
BAND SWITCH INPUT - 2 18
50/60 Hz OUTPUT(50Hz="L") 19
CHROMA ID INPUT(MONOCHROME="H") 20
BAND SWITCH OUTPUT - 1 21
BAND SWITCH OUTPUT - 2 22
GND 23
SYSTEM CLOCK OSCILLATOR(4MHz) IN 24
OUT
GND
VL VH HP U
PIN21 L H L H
PIN22 L L H H
52 OSD RED OUTPUT
51 OSD GREEN OUTPUT
50 OSD BLUE OUTPUT
49 OSD BLANKING OUTPUT
48 POWER ON/OFF OUTPUT(STANDBY="L",POWER ON="H")
47 SOUND MUTE OUTPUT(MUTE ON="L")
46 LINE OUT MUTE OUTPUT(MUTE ON="H")
45 BLUE BACK OPTION INPUT (BLUE BACK="L")
44 COLOUR SYSTEM SWITCHING OUT - 1
43 COLOUR SYSTEM SWITCHING OUT - 2
42 COLOUR SYSTEM SWITCHING OUT - 3
41 COLOUR SYSTEM SWITCHING OUT - 4
40 (M="H")
39 (B/G="H")
38 (I="H")
37 (D/K="H")
36 (L/L'="H")
SIF SYSTEM SWITCHING OUTPUT
35 KEY SCAN INPUT - 1
34 KEY SCAN INPUT - 2
33 AFT SIGNAL INPUT
32 SYNC ID INPUT (ID=LOW)
31 OVERLOAD PROTECTOR INPUT
30 RESET INPUT
29 IN
28 OUT
ON SCREEN DISPLAY OSCILLATOR
27 +5V SUPPLY